Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
. 14:				ISO/IEC_TS_							and synonyms definition [2] applicable
countability	i) relates to an allocated responsibility. The responsibility can be based on regulation or agreement or through assignment as part of delegation, 2) For systems, a properly that ensures that actions of an entity on the traced uniquely to the entity, 3) in a governance context, the obligation of an individual or organization to account for its architect, for completion of a chievable or task, account for its architect, for completion of a deliverable or task, account of the composition of those architects, deliverables or tasks, and to disclose the results in a transparent manner.	5723:2022(en)	*accountable" (adjective vs. noun); answerable for actions, decisions, and performance	5723-2022(en)							
curacy	the results in a transparent manner. Closeness of computations or estimates to the exact or true values that the statistics were intended to measure.	OECD	A qualitative assessment of correctness or freedom from error.	FDA_Glossary	The measure of an instrument's capability to approach a true or absolute value. It is a function of precision and bias.	FDA_Glossary	The accuracy of a machine learning system is measured as the percentage of correct predictions or classifications made by the model over a specific data set. It is typically estimated using a text or hold out: sample, other than the one(s) used to construct the model. Its complement, the error rate, is the proportion of incorrect predictions on the same data.	Raynor	measure of closeness of results of observations, computations, or estimates to the true values or the values accepted as being true	ISO/IEC_TS_ 5723/2022(en)	
tionable recourse	The ability of a person to change the decision of the model through actionable input variables.		receive	Varshney, _Kush	Readily available independent mechanisms by which each individuals' complaints and disputes are investigated and expeditiously resolved at no cost to the individual.						recourse, counterfactual explanation, appeal and override
tive learning	A proposed method for modifying machine learning algorithms by allowing them to specify test regions to improve their accuracy. At any point, the algorithm can choose a new point x, otherve the output and incorporate the new (x, y) spir into its training base. It has been applied to neural networks, prediction functions, and clustering functions.		Active learning (also called 'query learning,' or sometimes "optimal experimental design" in the statistics literature) is a subfield of machine learning and, more generally, artificial intelligence. The key hypothesis is that, if the learning algorithm is allowed to choose the data from which it learns—to be 'curious,' if you will—it will perform better with less training.	settles_active _2009	the process of learning through activities and/or discussion in class, as opposed to passively listening to an expert. It emphasizes higher-order thinking and often involves group work.	Freeman_et_a l_2014					
tive learning agent	[a machine learning algorithm that can] decide what actions to take [with regards to its training data, in contrast to a passive learning agent, which is limited to a fixed policy].		4								passive learning agent
tivity	Work that an organization performs using business processes; can be singular or	DA		CSRC							
laptive dynamic ogramming	An adaptive dynamic programming (or ADP) agent takes advantage of the constraints among the utilities of states by learning the transition model that connects them and solving the corresponding Markov decision process using dynamic programming.	Russell_and_N orvig	A means of learning a model and a reward function from observations that then uses value or policy iteration to obtain the utilities or an optimal policy; makes optimal use of the local constraints on utilities of states imposed through the neighborhood structure of the environment.	Russell_and_ orvig	4						
laptive learning	Updating predictive models online during their operation to react to concept drifts	Gama,_Joao									
lversarial action lversarial example		FBPML_Wiki NISTIR_8269_ Draft	Samples generated from real samples with carefully designed imperceptible perturbations	Zhang, _Yonggang							adversarial perturbation
dversarial machine	causes a learned model to output an incorrect answer. A practice concerned with the design of ML algorithms that can resist security challenges, the study of the capabilities of attackers, and the understanding of		The field to study vulnerabilities of machine learning approaches in adversarial settings and to develop techniques to make learning robust to adversarial manipulation.	Vorobeychik							
dversary	The agent who conducts or intends to conduct detrimental activities, perhaps by	NISTIR_8269_	settings and to develop techniques to make learning robust to adversarial manipulation. Individual, group, organization, or government that conducts or has the intent to conduct detrimental activities.	CSRC							
dverse action notice	A notification of ja refusal to grant credit in substantially the amount or on substantially the terms requested in the algolation unless the creditor makes a counterolife (to grant credit in a different amount or on other terms) and the accounter of the counterpart of the counterpart of the counterpart of the account or an unless of the counterpart of the counterpart of the accounter are unless of the counterpart of the counterpart of the all or substantially all of a class of the credit or accounts or iii) A refusal to increase the amount of credit available on applicant who has made an part of the counterpart of the counterpart of the counterpart of the part of the counterpart of the counterpart of the counterpart of the part of part of the part of part of	ECOA									
dverse impact ratio	Application of the state of the	Cadient_EEOC	produced and supprisingly groups receiving different entoness irrespective of the decision matter price and advergence for the decision matter growth of the clickion—stating produced. Quantificial as the ratio dispurate impact ratio $= P_1(1) \cap P_2(1) \cap P_3(1) \cap P_4(1) \cap $	Varshney, _Kush	there missing who constitutes dispurate impact a statistical seed as lot for from straightforward infinitive allowards in statistical statistical set of a finite discount of the statistical statistical set of the statistical statistical and the statistical statistica statistica statistica statistica statistica statis	HBR_Andrew_ Burt_how_to_ ensure					disparate impact ratio, relative risk ratio
gile	a development approach that delivers software in increments by following the principles of the Manifesto for Agile Software Development.	Gartner	A philosophy and methodology used to describe the continuous, iterative process to develop and deliver software and other digital technologies. User requirements and feedback inform incremental development and delivery by developers.	NSCAI							
t principles	In overarthing concept, value, belief, or norm that guides Ai development, testing, and deployment across the Killeydet. The ICID identifies five complementary values-based principles for the responsible stewardship of trustworthy AI and calls on AI actors to promote and implement them inclusive growth, sustainable development and well-being human-centred values and fairness, transpurency and explainability; robustness, executing and safety, and	OECD_CAI_re commendation									Are these definitions of what an AI principle is or a list of definitions?
gorithm	A set of step-by-step instructions. Computer algorithms can be simple (if it's 3 p. m., send a reminder) or complex (identify pedestrians).	Hutson, _Matthew	A set of computational rules to be followed to solve a mathematical problem. More recently, the term has been adopted to refer to a process to be followed, often by a computer.	Comptroller_ffice	Formulae given to a computer in order for it to complete a task (i.e. a set of rules for a computer).	Reznik,_Leon	precise rules for transforming specified inputs into specified outputs in a finite number of steps $$	knuth_art_19	8 algorithms are step-by-step procedures for solving problems. For concreteness, we can think of them simply as being computed programs, written in some	garey_comput ers_1979	
gorithmic aversion	biased assessment of an algorithm which manifests in negative behaviours and attitudes towards the algorithm compared to a human agent.	Ekaterina_et_							precise computer languages		
gorithm-in-the-loop	attitudes towards the algorithm compared to a human agent. [9] framework [full price through musting providing a more precise learn for readying the social impacts of algorithmic decision making path. [9] proceedings that the processes that employ agenthmic adds to enhance therein making the control of the processes that employ agenthmic adds to enhance the making to a support of the processes that the processes the end of the processes that the processes and the processes and the processes and the processes and the processes are the proces	Ben_Green_Yi ling_Chen									
ignment	challenge of alignment has two parts. The first part is technical and focuses on how to formally encode values or principles in artificial agents so that they reliably do what they ought to do The second part of the value alignment question is normative. It asks what values or principles, if any, we ought to encode in artificial assents.										
mplification	[an act of amplifying, which is] to make larger or greater (as in amount, importance or intensivial.		This criterion, disparity amplification, deals with the disparity in positive classification rates, which is a widely accepted disparity in positive classification rates, which is a widely accepted solvence. It stipulates that a disparity in the output of the model is justified by a commensurate disparity in the construct, thereby allowing accurate models even when the base rates are different for different protected groups, as equalized odds, predictive parity, and calibration do.	yeom_avoidin _2021	Let [construct space] y' and [prediction space] y' be categorical. Then, a model exhibits dispatrix amplification if $y' \in \mathcal{P}(y') = \mathcal{P}$	yeom_avoidin _2021	e e				
nalytics	Analytics is the application of scientific & mathematical methods to the study & Analytics (and the application of scientific & mathematical methods to the study & analytics of colleges and scientific the scientific of the scientific through through the scientific through through through through the scientific through through through the scientific through through	informs_analytics_2022	productive garacy, and cameration doc								
nnotation	Further documentation accompanying a requirement.		[the act of] mak[ing] or furnish[ing] critical or explanatory notes or comment		,						
nomaly	Anything observed in the documentation or operation of a system that deviates from expectations based on previously verified system, software, or hardware products or reference documents	IEEE_Soft_Vo	Condition that deviates from expectations, based on requirements specifications, design documents, user documents, or standards, or from someone's perceptions or experiences.	SP800-160							
nonymization	The process is which individually identifiable data is altered in such a way that it no longer can be related back to a given individual, almong many identifiable no longer can be related back to a given individual, almong many identifiable not be considered to the control of among	IAPP_Privacy_ Glossary	process that removes the association between the identifying dataset and the data subject	CSRC							
nthropomorphism	the attribution of distinctively human-like feelings, mental states, and behavioral characteristics to inanimate objects, animals, and in general to natural phenomena and supernatural entities	Anthropomorp hism_in_AI_2		Anthropomorphism_in_AI_3							
oplication	phenomena and supernatural entities A software program hosted by an information system.	020 SP800-37		CSRC	software or a program that is specific tothe solution of an application problem	aime_measure ment_2022 citing ISO/IEC					
polication	a software contract between the application and elient expressed or a collection	Hands-				TR 24030					
gramming interface	a software contract between the application and client, expressed as a collection of methods or functions it defines the available functions you can execute; the intermediary interface between the client and the application.	On_Smart_Co ntract_Dev									

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms [2]	Legal definition
rtificial general stelligence (AGI)	Algorithms that perform a wide variety of tasks and switch simultaneously from one activity to another in the manner that humans do.				n Human-like intelligence, which can be applied widely as opposed to narrow AI, which can only be applied to one particular problem or task. Also called "strong" AI as opposed to "weak" AI.	k_Coeckelber	g				strong AI	applicable
			the field concerned with developing techniques to allow computers to act in a manner that seem like an intelligent organism, such as a human would the aims way from the weak end, where a program seems "a little smarter" than one would expect, to the strong end, where the attempt is to develop a fully consult, intelligent, computer-based entity. The lower end is continually disappearing into the general computing background, as the software and hardware evolves.	Raynor	the study of sleas to bring into being machines that respond to stimulation consistent with raditional responses from humans; given the human capacity for contemplation, judgment and intention. Each such machine should engage in critical appraisal and selection of differing opinions within itself. Produced by human skill and labor, these machines should conduct themselves in agreement with life, spirit and sensitivity, though in reality, they are initiations.	Shubendhu_a or d_Vijay	n a field of study that is adept at applying intelligence to vast amounts of data and deriving meaningful results	Wallace,_Brian	The application of computational tools to address tasks traditionally requiring human analysis.	Comptroller_6 ffice	O machine learning; data science	
rtificial intelligence arning	correlation leading to the creation of useful conclusive or predictive capabilities in a given knowledge domain. Strong Al learning also includes the capability of creating unique hypotheses, attributing data relevance, processing data relationships, and updating its own lines of inquiry to further the usefulness of its numone.	IEEE_Guide_I PA										
rtificial narrow stelligence (ANI)			Artificial Narrow Intelligence, also known as weak or applied intelligence, represents most of the current artificial intelligent systems which usually focus on a specific task. Narrow Alas are mostly much better than humans at the task have were much for for example, look at these recognition, chees computers, calculas, and translation. The definition of artificial narrow intelligence is in contrast to that of across place and artificial narrow intelligence is contrast to that of across place and intelligence, which aims as providing a system with consciousness on the ability to solve any problems, and application or examples of artificial narrow intelligence systems.								weak intelligence; applied intelligence	
rtificial neural etworks	A comparing system, made up of a number of simple, highly interconnected processing elements, which processes information by its dynamic state response to external luptus.	Reznik,_Leon	A good declination of ANN. Is given by Hushin [1] describing, ANN. as a massively parallel combination of all mading processing united her an acquire homolegic from environment through a kerning process and store the knowledge in its contentions.	guresen_defir tion_2011	inflations 1. A directed graph is added on retifical feeral of worst of 100/17 in the second of 100/17	isis bee nni k k it n						
ssessment	Action of applying specific documented criteria to a specific software module, package or product for the purpose of determining acceptance or release of the software module, package or product.	IEEE_Soft_Vo	the action or an instance of making a judgment about something: the act of assessing something: APPRAISAL	Merriam- Webster_asse	s							
asset	software module, package or product. Item, thing, or entity that has potential or actual value to an organization. Item that has been designed for use in multiple contexts.	IEEE_Soft_Vo	-	sment								
attack	that has been designed for use in multiple contexts. Action targeting a learning system to cause malfunction.		Any kind of malicious activity that attempts to collect, disrupt, deny, degrade, or destroy information system resources or the information itself.	CSRC								
attribute	Property associated with a a set of real or abstract things that is some characteristic of interest.	IEEE_Soft_Vo		Kohavi,_Ron	property or characteristic of an object that can be distinguished quantitatively of qualitatively by human or automated means	or aime_measur ment_2022, citing ISO/IE TR 24029-1						
audit	Systematic, independent, documented process for obtaining records, statements of fact, or other relevant information and assessing them objectively, to determine the extent to which specified requirements are fulfilled.	IEEE_Soft_Vo	To conduct an independent review and examination of system records and activities in order to test the adequacy and effectiveness of data security and data integrity procedures, to ensure compliance with established policy and operational procedures, and to recommend any necessary changes.	FDA_Glossary	Independent examination of a software product, software process, or set of software processes to assess compiliance with specifications, standards, contractual agreements, or other criteria		Independent review conducted to compare the various aspects of the laboratory s performance with a standard for that performance. Also defined as a systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which audit criteria are thiffled.	UNODC_Gloss ary_QA_GLP				
audit log	A chronological record of system activities, including records of system accesses and operations performed in a given period.	SP800-37					TATE IN C.					
authenticity	property that an entity is what it claims to be	ISO/IEC_TS_ 5723:2022(en)										
automation	Independent machine-managed choreography of the operation of one or more digital systems.		conversion of processes or equipment to automatic operation, or the results of the conversion			DOD_TEVV						
automation bias	over-relying on the outputs of AI systems	David_Leslie_ Morgan_Brigg s	It refers to a well-documented human propensity to automatically defer to automated systems, despite warning signals or contradictory information from other sources. In other words, human actors are found to uncritically abdicate their decision making to automation.	alon- barkat_humar _2023								
autonomic	Amontor analyze-plan-recucie (MAT) compare system coupled of sensing intermements, interpretagolless, accessing lending deviational management of the control base-bedge) from a fine-free plant precision, and intuiting dynamically assembled resolution base-bedge flat are information of base-bedge flat are inclined by the control of the											
autonomous vehicle	[an] automobile, bus, tractor, combine, boat, forklift, etc capable of sensing its environment and moving safely with little or no human input.	Introduction_t o_Information										
autonomy	The system has a set of intelligence-based capabilities that allows it to respond to situations that were not pre-programmed or anticipated (e., decision-based responses) prior to system deploymer, Justinomonous systems have a degree of self-government and self-directed behavior (with the human's proxy for decisions).	_Systems DOD_TEVV	La state of independence and self-determination is an individual, a group, or a society. According to some theories, an inconduste focus on self-determination and architectures represents a risk factor for the development of major depressive disorder. 2.1 as self-determination theory more specifically, the experience of acting from choice, rather than feeling pressured to act. This form of autonomy is considered a fundamental provincipolal medium terrollects well-being.	APA_autonom y								
availability	Ensuring timely and reliable access to and use of information.	SP800-37	a fundamental psychological need that predicts well-being. The property that data or information is accessible and usable upon demand by an authorized person.	NIST_SP_800	property of being accessible and usable on demand by an authorized entity	ISO/IEC_TS						
back test	the quantitative evaluation of a model's performance both from a statistical and trading perspective	The_Science_ of_Algorithmic _Trading_and _Portfolio_Ma				5725-2022(eti)						
backpropagation	and the desired output, then adjust the calculations in reverse order of execution.	Hutson, _Matthew	A classical method for error propagation when training Artificial Neural Networks (ANNs). For standard backpropagation, the parameters of each node are changed according to the Eucle error gradient. The method can be very slow to converge aithough it can be improved through the use of methods that slow the error propagation and by back processing, Many alternate methods such as the conjugate gradient and Levenberg-Marquardt algorithms are more effective and reliable.	Raynor								
bad actor bagging	individuals or entities who are responsible for cyber incidents against enterprises, governments, and users. Bagging predictors is a method for generating multiple versions of a predictor and using these to get an aggregated predictor.	Mark_Ciampa 2021	commone with objectives of studying and using cyber security techniques and tools for personal or private gain through milations or there archity. In this approach we generate 8 different boostrapport training data sets. We then train our method onthe kh boostrapport training that a set. We then train our method onthe kh boostrapport training set in order to get "feb. (i), and finally averageall the predictions, to obtain "fluggio" -181 . Beh^{-1} Feb_0). This is called baggion.	Thomas_Edga							black hat, threat actor	
back-testing	A form of outcomes analysis that involves the comparison of actual outcomes	Comptroller_C	is called bagging.									
batched automation	Process automation execution of intentionally segregated work processes that are able to be processed irrespective of their contextual placement within a service.	IEEE_Guide_I PA										
benchmark		IEEE_Soft_Vo	An alternative prediction or approach used to compare a model's inputs and outputs to estimates from alternative internal or external data or models.	Comptroller_0 ffice	The term benchmarking is used in machine learning (ML) in refer to the evaluationate composition of ML methods regarding their shifty to learn patterns in benchmarkfultatest that have been applied as standards. Benchmarkfultatest that have been applied as standards to exchange the standards are supported by the standards to the standards that the standards that the standards are supported and care liably find simple patterns that existing methods are known to identify.	olson_pmlb_ 017						

Terms	s Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition [2] applicable
ias	A systematic error. In the context of fairness, we are concerned with unwanted bias that places privileged groups at systematic advantage and unprivileged groups at systematic disadvantage.	Al_Fairness_3 60	(computational bias) An effect which deprives a statistical result of representativeness by systematically distorting it, as distinct from a random error which may distort on any one occasion but balances out on the average.	OECD	(legal/ethics) Discrimination against or in favor of particular individuals or groups. In the context of ethics and politics, the question arises whether a particular bias is unjust or unfair.	AI_Ethics_Mar k_Coeckelberg h	(systemic bias) systematic difference in treatment of certain objects, people or groups in comparison to others	measurement_ iso22989_20Z	(mathematical) A point estimator \texts_hat is said to be an unbiased estimator 2 fo \texts_hat is \texts_hat is \texts_hat is \texts_hat is \texts_hat is not unbiased, the difference E(\texts_hat) - \texts_hat is not unbiased, the difference E(\texts_hat) - \texts_hat is called the bias of \texts_hat is.	devore_proba ility_2004	b
	A procedure for reducing unwanted bias in training data or models.	Al_Fairness_3							nas or fracta		
as testing	As it relates to disparate impact, courts and regulators have utilized or considered as acceptable various statistical tests to evaluate evidence of disparate impact radiational methods of statistical bias testing blook at differences in predictions across protected clauses, such as race or see. In particular, courts have looked to statistical is alignificance testing to assess whether the challenged practice likely canned the disparity and was not the result of channe or a sondisticnimitarity factor.	SP1270									
goata	Extremely using each sets that are statement any analyzed to be the and are the computer from the date can instead enlarged to the computer processing power. Datasets are sometimes inlined together to see how patterns in one comman affect other areas. Data can be structured into fixed fields or unstructured as free-livening information. The analysis of beginning that were not unstructured as free-livening information, underlying relationships that were not unsigned, can reveal patterns, trends, or underlying relationships that were not	itution	t consists of extensive datasets primarily in the characteristics of volume, variety, velocity, and/or variability: that require a scalable architecture for efficient storage, manipulation, and analysis	NIST_1500							
nning	a technique of lumping small ranges of values together into categories, or "bins," for the purpose of reducing the variability (removing some of the fine structure) in a data set.	Pyle, _Dorian_Data _Preparation_ as_a_Process									
iometric data	physical, physiological or behavioural characteristics of a natural person, which allow or confirm the unique identification of that natural person, such as facial images or dactyloscopic data;	GDPR	an inchinated physiological subspiced or behavior of clear-centrics, inchinated information per sound per in influentiate depression per substantial experiment of the perimental control of the perimen	CCPA d	A measurable physical characteristic or personal behavioral trait used to recognize the identity or everify the claused identity, of an applicant. You images, fingerpitots, and iris scan samples are all examples of biometrics.	SP800-12					personal data; processing
oosting	Boosting works by sequentially applying a classificational gorithm to reweighted versions of the training data and then taking a weighted majority vote of the sequence of classifiers thus produced.	friedman_add tive_2000	A machine learning technique that iteratively combines a set of simple and not very accurate classifiers (referred to as "weak" classifiers) into a classifier with thigh accuracy (a "strong" classifier) by upweighting the examples that the model is currently misclassifying	ment 2022	e e						
oreach	The loss of control, compromise, unauthorized disclosure, unauthorized acquisition, or any similar occurrence where: a person other than an authorized user accesses or potentially accesses personally lefortilable information; or an authorized user accesses personally identifiable information for another than authorized purpose.	CSRC		Google							
oroad artificial ntelligence (broad AI)	Complex, computational, cognitive automation system capable of providing descriptive, predictive, prescriptive, and limited deductive analytics with relevance and accuracy exceeding human expertise in a broad, logically related set of knowledge domains.	IEEE_Guide_I PA	a sophisticated and adaptive system, which successfully performs any cognitive task by virtue of its sensory perception, previous experience, and learned skills.	Hochreiter, _Sepp							
ouilt-in test	Equipment or software embedded in the operational components or systems, as opposed to external support units, which perform a test or sequence of tests to verify mechanical or electrical continuity of hardware, or the proper automatic sequencing data processing and readout of hardware or software externs	SP1011									
oug-bounty	Reward given to independent security researchers, penetrations testers, and white har hackers for discovering exploitable software valuerabilities and sharing this knowledge with the operator of a particular bue-bounty or	Kuehn, _Andreas									
ousiness process	A defined set of business activities that represent the steps or tasks required to achieve a business objective, including the flow and use of information, participants, and human or digital resources.	IEEE_Guide_I PA									
ousiness process management	Discipline involving any combination of modeling, automation, execution, control, measurement and optimization of business activity flows, in support of enterprise goals, spanning systems, employees, customers, and partners within and barrond the enterprise boundaries.	IEEE_Guide_I PA									
ousiness rule	Definition, constraint, dependency, or decision criteria that determine the method of execution of a task or tasks, or influences the order of execution of a task or tasks, subsiness rules assert control, or influence the behavior, of a business process within computing systems.	IEEE_Guide_I PA									
alibration	to sames process within computing systems. A comparison between a device under test and an established standard, such as UTC(NIST). When the calibration is finished, it should be possible to state the estimated time offset and/of requency offset of the device under test with respect to the standard, as well as the measurement uncertainty.	CSRC	operation that, under specified conditions, in a first step, establishes a relation between the quantity values with measurement uncertainties provided by measurement standards and corresponding indications with associated measurement uncertainties and, in a second step, uses this information to establish a relation for obtaining a measurement result from an indication	aime_measur ment_2022, citing ISO/IE Guide 99	e Set of operations that establish, under specified conditions, the relationship between values indicated by a measuring instrument or measuring system, or C values represented by a material measure, and the corresponding known values of a measurand.	UNODC_Gloss ary_QA_GLP					
capability	measure of capacity and the ability of an entity, person or organization to achieve its objectives										
ase	specifies the processing to be performed for each value of the control expression, and returns control in all instances to the statement immediately following the overall construct.	IEEE_Soft_Vo									
ausal inference	an intellectual discipline that considers the assumptions, study designs, and estimation strategies that allow researchers to draw causal conclusions based on data. The term causal conclusion's used here refers to a conclusion regarding the effect of a causal variable (often referred to as the 'treatment' under a broad concention of the word on some outcomeris of interest.	Jennifer,_Hill									
ausative	acting as the cause of something	cambridge_ca usative 2023									
hatbot	Conversational agent that dialogues with its user (for example: empathic robots available to patients, or automated conversation services in customer relations).	COE_AI_Glos ary	A chatbot is a computer program which responds like an intelligent entity when conversed with. The conversation may be through text or voice. Any chatbot program understands one or more human languages by Natural Language Processing	Khanna, _Anirudh							
horeography	An ordered sequence of system-to-system message exchanges between two or more participants. In choreography, there is no central controller, responsible entity, or observer of the process.	PA									
lassification	When the output is one of a finite set of values (such as sunny, cloudy or rainy), the learning problem is called classification, and is called Boolean or binary classification if there are only two values.	AIMA	task of assigning collected data to target categories or classes.	aime_measur ment_2022, citing ISO/IE TR 24030	e						
lassifier	A model that predicts categorical labels from features.	AI_Fairness_3 60									
clustering		AIMA	The basic problem of clustering may be stated as follows: Given a set of data points, partition them into a set of groups which are as similar as possible.		st the tendency for items to be consistently grouped together in the course of recall. This grouping typically occurs for related items. It is readily apparent in memory tasks in which items from the same category, such as nonhuman animals, are recalled together.	APA_clusterin					
ognitive automation	The identification, inscusioner, and application of available machine learning algorithms for the purpose of everaging domain bonovelege and reasoning to further automate the machine learning already present in a numer that may be modest of an output. With cognitive automation, the system performed it series is soon automation approaches and algorithms for more expansive or more through automation approaches and algorithms for more expansive or more through automation. Also the state of the comment of the cognitive process refuse steaf and dynamically generates novel indications. The statemation of the cognitive process refuse steaf and dynamically generates novel indications to the comment of the cognitive process refuse steaf and dynamically generates novel indications to the comment of the cognitive process refuse steaf and dynamically generates novel indications to the comment of the cognitive process refuse steaf and dynamically generates and other indications are considered to the comment of the comment o	IEEE_Guide_I PA			•	will be a second or second					
	information resources.	IEEE_Guide_I PA									
olumn	In the context of relational databases, a column is a set of data values, all of a										
COMPAS controversy	single type, in a table. A consocial example [of algorithmic bind] comes from a tool used by courts in the Aconsocial example [of algorithmic bind] comes from a tool used by courts in the Court-cition of the control	lumn_2022 Mehrabi, _Ninareh									

Terms	Definition 1	Citation 1[1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	itation 5	Related terms Legal and synonyms definition
concept drift	Use of a system outside the planned domain of application, and a common cause of performance gaps between laboratory settings and the real world.	SP1270	an online supervised learning scenario when the relation between the input data and the target variable changes over time.	Gama,_Joao	Systems that classify or predict a concept [e.g., credit ratings or computer intrusion monitors) over time can suffer performance loss when the concept hear tracking changes. This is referred to as concept drift. This can either be a natural process that occurs without a reference to the system, or an active process, where others are reacting to the system [e.g., vinus detection].	Raynor					[2] applicable
onfidentiality	Data confidentiality is a property of data, usually resulting from legislative measures, which prevents it from unauthorized disclosure.	OECD	Preserving authorized restrictions on information access and disclosure,	CSRC	process, where others are reacting to the system (e.g., virus detection). The property that data or information is not made available or disclosed to unauthorized persons or processes.	NIST_SP_800	A property that information is not disclosed to users, processes, or devices unle they have been authorized to access the information.	is CISA			
onfusion matrix	measures, which prevents it from unauthorized disclosure. A matrix showing the predicted and actual classifications. A confusion matrix is of size LxL, where L is the number of different label values	Kohavi,_Ron	including means for protecting personal privacy and proprietary information.		unauthorized persons or processes.		they have been authorized to access the information.				
consent	Connected of the data subject means any freely given, specific, informed and manifespoint solicious of the data subject visits by which he ex the five year for the data subject visits by which he exist for set, by a given subject to the processing of personal data relating to him or her.	GDPR	Consent' means any freely given, specific, informed, and unambiguous indication of the consumer's which by which the consumer's or the consumer's content of the consumer's content of the consumer's conservation for the consumer's conservation for the consumer includingly as interestent of the part differentive action, significant agreement to the processing of personal information relating to the consumer for a narrowly defined particular purpose. Acceptance of the consumer of the consumer of the consumer of the consumer of the constraint of the	ССРА							personal data
	independent system that forms part of a system of systems (SoS) (note: Constituent systems can be part of one or more SoS. Each constituent system is a useful system by itself, having its own development, management, utilization, goals, and resources, but interacts within the SoS to provide the unique capability of the SoS).	ISO/IEC_TS_ 5723/2022(en)									
constraint	capaionity of the Soo). Specification of what may be contained in a data or metadata set in terms of the content or, for data only, in terms of the set of key combinations to which specific attributes (defined by the data structure) may be attached.	OECD	A limitation or implied requirement that constrains the design solution or implementation of the systems engineering process and is not changeable by the	IEEE_Soft_V							
construct validity	specific attributes (defined by the data structure) may be attached. the degree to which the application of constructs to phenomena is warranted with respect to the research goals and questions.	Wieringa, _Roel_J.			Established experimentally to demonstrate that a survey distinguishes between people who do and do not have certain characteristics. It is usually established experimentally.	fink_survey_2 010	Establishing construct validity means demonstrating, in a variety of ways, that the measurements obtained from measurement model are both meaningful and useful.	jacobs_measu ement_2023	<i>x</i>		
content harms	the psychological, social, physical, or other harms experienced by someone while	Chi,_Gao,_Ma	per our manner.		experimentally.		U.St. 100.				harms of
content validity	the psychological, social physical, or other harms experienced by someone while they are interacting with content that is algorithmically recommended to them. Refers to the extent to which a measure thoroughly and appropriately assesses the skills or characteristics it is intended to measure.	fink_survey_2 010	the extent to which a test measures a representative sample of the subject matter or behavior under investigation. For example, if a test is designed to survey arithmetic slids at a third-grade below, context validity incide are how the it is represents the range of arithmetic operations possible at that level. Modern approaches to determining content validity involve the use of exploratory factor analysis and other multivariate statistical procedures.	APA_content validity							representation
contestability	A contestable statement, claim, legal decision, etc. is one that is possible to argue about or try to have changed because it may be wrong	cambridge_co ntestable_202									
		OECD	The immediate environment in which a function (or set of functions in a diagram operates) IEEE_Soft_V	the interrelated conditions in which something exists or occurs.	Merriam- Webster_cont					
context control contextual learning	A computing system with sufficient Impelades regarding its number, that is	IEEE Codds .									
_	A computing system with sufficient knowledge regarding its purpose that it understands the source, relevance, and utility of data and inputs. The Context of Use is the actual conditions under which a given artifact/software product is used, or will be used in a normal day to day working situation.	PA interaction_co ntext_2023	comprises a combination of users, goals, tasks, resources, and the technical, physical and social, cultural and organizational environments in which a system, product or service is used[] can include the interactions and interdependencies between the object of interest and other systems, products or	ISO_9241-11: 2018							
			interdependencies between the object of interest and other systems, products or services.								
controllability control class	property of a system that allows a human or another external agent to intervene in the system's functioning, such a system is heteronomous.	ISO/IEC_TS_ 5723'2022(en) nist_statistics									
	(control grough the set of observations in an experiment or prospective study that do not receive the experimental treatments). These observations serve (a) as a comparison point to evaluate the magnitude and significance of each experimental treatment, (b) as a reality check to compare the current observations with previous observation history, and (c) as a source of data for establishing the natural experimental error.										
controller	Controller' means the natural or legal person, public authority, agency or other body which, alone or jointly with others, determines the purposes and means of the processing of personal data; where the purposes and means of such processing are determined by Union or Member State law; the controller or the specific criteria for its nomination may be provided for by Union or Member.	GDPR									personal data; processor
copilot	An artificial intelligence powered software program designed to assist users with various tasks and automate features within compatible applications using advanced language models, machine-learning algorithms, and conversational interfaces to understand user requests and provide suggestions, summaries, and content generation in response.		A product or service that provides assistance using, incorporating and/or based on artificial intelligence software and artificial intelligence software services								
corpus (corpora)	A deliberately assembled collection of knowledge and data (structured and/or unstructured) believed to contain relevant information on a topic or topics to be used by software systems for which useful analysis, prediction, or outcome is being sought.	IEEE_Guide_I PA									
correlation	In its most general sense correlation denoted the interdependence between quantitative or qualitative data. In this sense it would include the association of dishotowing distributes and the continuous of multiplicable religious transfers.	OECD	The correlation coefficient of two random variables y_1 , and y_2 , denoted $\ho(y_1,y_2)$ is: $\ho(y_1,y_2) = Cov(y_1,y_2)/\sqrt{Var(y_1)^Var(y_2)}$	box_statistics _2005							
explanation	Statements taking the form: Score p was returned because variables V had values (v1, v2,) associated with them. If V instead had values (v1, v2,) score p' would have been returned.	wachter_coun terfactual_201 8									
	Our definition of counterfactual fairness captures the intuition that a decision is fair towards an individual if it the same in (a) the actual world and (b) a counterfactual world where the individual helonged to a different demographic group.	kusner_counte rfactual_2017	Cover a predictive problem with farmess considerations, where A x and Y represent the postcordartholers, missing surfaces, and output of subrest representatives, and output of subrest problems and the problems of the problems of the problems of Y . The post of the problems of Y . The problems of the problems of Y . The problems of Y . The post of Y . The problems of Y	kusner_coun rfactual_2017	e A fairnessmetric that checks whether a classifier produces the same result for one individuals it does for another individual who is destincted to the first, except withrespect to one or more sensitive attributes. Evaluating a classifier for counterfactualfairness is one method for surfacing potential sources of bias in a model	aime_measure ment_2022, citing Machine Learning Glossary by Google					
	Actions, devices, procedures, techniques, or other measures that reduce the vulnerability of a system. Synonymous with security controls and safeguards.	SP800-37	Actions, devices, procedures, or techniques that meet or oppose (i.e., counters) a threat, a vulnerability, or an attack by eliminating or preventing it, by minimizing the harm it can cause, or by discovering and reporting it so that corrective action can be taken.	GWUC							safeguard; security control
criterion validity	compares responses to future performance or to those doctained from other, more well-established surveys. Criterian videly is made up two provides of the control of the co	fink_survey_2 010	as also of the ved a test correlates with an established standard of composition (i.e., a circum) collection subting shedded below here types prediction usuality, concurrent subting, and retrospective validity, for example, 4 a measure of the control of the	n APA_criterion _validity							criterion- referenced validity, criterion- related validity
crowdsource	a spee of participative online activity in which an individual, an institution, a non- port congulation, or company prospects to a group of individuals of our sing interest of the company property of a group of individuals of our sing understaining of a task. The understaining of the task, of variable complexity and modularity, and in which the crownle should participate bringing their words, money, knowledge and/see experience, always entails minutal benefit. The user will receive the materiation of a given type of ends be it excessed in a single size of the company of the company of the company of the company of the company of the company of the company of the company of the company of										
ustomer	THE DESIGNATION OF the CACCAGOST OF MIT MADDINACE CASE, PROCESS, OF SETTICE.	DA									
cybersecurity	Prevention of damage to, protection of, and restoration of computers, electronic communications systems, electronic communications services, wire communication, and electronic communication, including information contained therein, to ensure its availability, integrity, authentication, confidentiality, and nonrepudation.	SP800-37									
lark pattern	"Dark pattern" means a user interface designed or manipulated with the substantial effect of subverting or impairing user autonomy, decisionmaking, or choice, as further defined by regulation.	CCPA									
lata	choice, as further defined by regulation. Characteristics or information, usually numerical, that are collected through observation.	OECD	re-interpretable representation of information ina formalized manner suitable for communication, interpretation or processing	aime_measur ment_2022, citing ISO/IE TR 24029-1							
data analytics	The analysis of data to gather substantive insights. Researchers use statistical techniques to find trends or patterns in the data, which give them a better understanding of a range of different poise. Data analytic approaches are used in many businesses and organizations to track day-to-day activities and improve operational efficiency.	Brookings_Institution	t Data analysis is the process of transforming raw data into usable information, often presented in the form of a published analytical article, in order to add value to the statistical output.	TR 24029-1 OECD	the process of applying graphical, statistical, or quantitative techniques to a set of observations or measurements in order to summarize it or to find general patterns.	f APA_data_ana lysis					

Term	s Definition 1	Citation 1[1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
											and synonyms definition [2] applicable
data cleaning	Data Cleaning is the process of identifying, correcting, or removing inaccurate or corrupt data records	_Erik									
data control	management oversight of information policies for an organization's information; observing and reporting on how processes are working and managing issues.	Egnyte									
data dredging	A statistical bias in which testing huge numbers of hypotheses of a dataset may appear to yield statistical significance even when the results are statistically nonsignificant.	SP1270									statistical bias; p-hacking
data drift	The change in model input data that leads to model performance degradation.	Microsoft_Azz	u a								
data-driven	Data-driven decision making (DDD) refers to the practice of basing decisions on the analysis of data rather than purely on intuition.	provost_data_	-								
data fabric	the analysis of data rather than justice of on indution. A data corpus, after the application of semantic mapping, relevant ontologies, and data seeding sufficient for artificial intelligence (Al) or machine learning algorithms to provide meaningful insight, prediction, and/or prescription. A process in which data, generated by multiple sensory sources, is integrated	I IEEE_Guide_I PA									
data fusion	A process in which data, generated by multiple sensory sources, is integrated and/or correlated to create information, knowledge, and/or intelligence that may be displayed for user or be actionable to accomplish the tasks.	SP1011	The process of combining data from multiple sources to produce more accurate, consistent, and concise information than that provided by any individual data source.	Munir,_Arslan							
data governance	A set of processes that ensures that data assets are formally managed throughout the enterprise. A data governance model establishes authority and management and decision making parameters related to the data produced or managed by the enterprise.		refers to a system, including policies, people, practices, and technologies, necessary to ensure data management within an organization	NIST_1500							
data mining	Techniques that analyze large amounts of information to gain insights, spot trends, or uncover substantive patterns. These approaches are used to help basinesses and organizations improve their processes or identify associations that shed light on relevant questions. Data mining often involves more use of algorithms, especially matchine learning than traditional statistics.	Brookings_Ins itution	tt Data Mining is the process of data analysis and information extraction from large amounts of datasets with machine learning, statistical approaches, and many others.	Ranschaert, _Erik	computational process that extracts patternsby analysing quantitative data from different perspectives and dimensions, categorizingthem, and summarizing potential relationships and impacts	aime_measure ment_2022 citinig ISO/IEC 22989					
data point	a discrete unit of information.	TechTarget_d	a the information we feed into the machine learning model.	Morris_John_							
data poisoning	Machine learning systems trained on user-provided data are susceptible to data poisoning attacks, whereby malicious users inject false training data with the aim of corrupting the learned model	ta_point Steinhardt, _lacob		data_point							
data preparation	of corrupting the learned model We define data preparation as the set of preprocessing operations performed in early stages of a data processing pipeline, i.e., data transformations at the structural and syntactical levels	hameed_data_ 2020	=								
data proxy	structural and syntactical levels Data that are closely related to and serve in place of data that are either	Comptroller (n.								
data quality	Data that are closely related to and serve in place of data that are either unobservable or immeasurable. degree to which the characteristics of data satisfy stated and implied needs when	ffice		OECD							
vakea spinnen y	used under specified conditions	cab	- listogity; methodological soundness; - accuracy and reliability; - accessibility; - accessibility; - there are a number of prerequisites for quality. These comprise- legal and institutional environment;								
data science	The field that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data	Reznik,_Leon	quality awareness. Data-Driven Science, or Data Science, is an interdisciplinary field of employing computing algorithms to extract knowledge or insights from data acquired from	Ranschaert, Frik	Methodology for the synthesis of useful knowledge directly from data through a process of discourty or of hypothesis formulation and hypothesis testing	NIST_1500	Interdisciplinary science that uses statistics, algorithms, and other methods to extract meaningful and useful natterns from data sets—sometimes known as "hig	AI_Ethics_Man			artificial intelligence
			different sources.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		extract meaningful and useful patterns from data sets—sometimes known as "big data". Today, machine learning is often used in this field. Next to analysis of data, data science is also concerned with the capturing, preparation, and interpretation of data.	h			intelligence (AI); machine learning (ML)
data scientist	A practitioner who has sufficient knowledge in the overlapping regimes of business needs, domain knowledge, analytical skills, and software and systems engineering to manage the end-to-end data processes in the analytics life cycle.	NIST_1500					inc. pecanon or unte				
data seeding	engineering to manage the end-to-end data processes in the analytics life cycle. The intentional introduction of initial state conditions, influencing factors, and outcomes (both successful and unsuccessful) in a data fabric to create sufficient machine learning analysis signals to enable encouragement/discouragement or earth deterministic relationships between data elements in a given information	IEEE_Guide_I PA									
data wrangling	cleaned and integrated, to yield a data set that is suitable for exploration and	Furche,_Tim									
decision	A conclusion reached after consideration of business rules and relevant data	IEEE_Guide_I	Types of statements in which a choice between two or more possible outcomes controls which set of actions will result.	IEEE_Soft_Vo							
decision point	A point within a business process where the process flow can take one of several alternative paths, including recursive.	IEEE_Guide_I	COUNTRY WHILE SEE OF SECTIONS WHILE COME.	Calo							
decision subject decision tree	Tree-structure resembling a flowchart, where every node represents a test to an attribute, each branch represents the possible outcomes of that test, and the leaves represent the class labels.		In this chapter, we describe tree-based methods for regression and classification. These involve stratifying or segmenting the predictor spacetime a number of simple regions. In order to make a prediction for a given-benevation, we typically use the means or the mode with the raining downwardsom the region to whole it was the result of the region of the result of	james_statistic al_2014							
decision-making	the cognitive process resulting in the selection of a belief or a course of action among several possible alternative options. It could be either rational or irrational. The decision-making process is a reasoning process based on assumptions of values, preferences and beliefs of the decision-maker. Every decision-making process produces a final choice, which may or may not prompt	Wikipedia_De ision-making	methods. the cognitive process of choosing between two or more alternatives, ranging from the relatively clear cut (e.g., ordering a meal at a rectanization) to the complex (e.g., selecting a main!) psychologists have adopted two connecting strategies to understand decision making (s) statistical analysis of multiple decisions involving complex tasks and (b) experimental manipulation of simple decisions, looking at the elements that recut within these decisions.	APA_decision_ making	Decision making requires that the decision maker make a choice between two or more alternatives (note that doing nothing can be viewed as making a choice). The alternative selected results in role or imaginary consequences to the decision maker. Augment is a closely related process in which a person rates or assigns values to attributes of the alternatives considered. A rational decision maker	Lehto_Nanda_	a choice of action – of what to do or not do. Decisions are made to achieve goals, and they are based on beliefs about what actions will achieve the goals.	Baron_Thinkin g_and_Decidi ng			
decision support system	action. a computer program application used to improve a company's decision-making capabilities. It analyzes large amounts of data and presents an organization with the best possible options available; they bird together data and knowledge from different areas and sources to provide users with information beyond the sources to provide users with information beyond the sound reports and summariers. This is it intended to help option make informed	TechTarget_d ecision_suppo rt_system	the elements that recur within these decisions, a model-or knowledge-based system intended to support managerial decision making in semistructured or unstructured situations. A DSS is not meant to replace a decision maker, but to extend his/hr decision making capabilities. It uses data, provides a clear user interface, and can incorporate the decision maker's own integlights.	Burstein_Hols apple	seeks desirable consequences and attempts to avoid undesirable consequences.	2021					
decommission	decisions. the total or partial removal of existing components and their corresponding sub- components from Production and any relevant environment, minimizing risks and impacts, ensuring policy compliance, and maximizing the financial benefits (i. e., optimizing the cost reduction).										
deductive analytics	Insights, reporting, and information answering the question, "What would likely happen IF?" Deductive analytics evaluates causes and outcomes of possible	IEEE_Guide_I									deductive reasoning
deep learning				Russell and N	Machine learning method based on characterization of data Jearning	Reznik, Leon	A form of machine learning that uses neural networks with several layers of	Al Ethics Mor	fan approach to AI that allows) computers to learn from experience and	deeplearnipoh	-
	nature events. A subset of machine learning that relies on neural networks with many layers of neurons. In so doing deep learning employs statistics to spot underlying trends have been also as the same and the sa	itution	hypotheses take the form of complex algebraic circuits with tunable connection torengibs. The word "deep" refers to the fact that the circuits are typically organized into many layers, which means that computation paths from inputs to outputs have many verya. Evel periarring its currently the most which yeal computation was very despited to the computation of the computation of the superior of the computation of the computation of the computation of the computation, speech recognition, speech synthesis, and image synthesis; it also plays a significant role in reinforcement learning applications.	orvig			*neurons* simple interconnected processing units that interact.	k_Coeckelberg h	[an approach to AI that allows] computers to learn from experience and understand the world in terms of a hierarchy of concepts, with each concept experience, the second concept experience, this approach avoids the need for human operares to formally specify all the knowledge that the computer needs. The hierarchy of concepts specify all the knowledge that the computer needs. The hierarchy of concepts specify all the knowledge that the computer needs. The hierarchy of concepts specified to experience. If we draw a graph showing how these concepts are built on top of each other, the graph is deep, with many just of the concepts are built on top of each other, the graph is deep, with many just of the concepts are built on top of each other, the graph is deep, with many just of the concepts are built on top of each other, the graph is deep, with many just of the concepts are built on top of each other, the graph is deep, with many just of the concepts are built on top of each other, the graph is deep, with many just of the graph is deep.	ook_intro	
deepfake	Digital images and undo that are artificially altered or manipulated by Al and/or deep learning offices to make someone do or say something he or she did not actually do or say. Pictures or videos can be edited to put someone in a compromising position or to have someone make a controversal statement, even though the person did not actually do or say what is shown. Increasingly, it is videos and image to the person of the categories of the person did not actually do or say what is shown. Increasingly, it is videos and image.	Brookings_Ins itution	segmentant to the returned received explorations. A digital picture or video that has been multiconshy edited using an algorithm in a way that makes the video appear authentic.	GWUC							
deletion	Of all \$32, the action of destroying an installitated \$32.	cab									
denial-of-service	The prevention of authorised access to resources or the delaying of time-critical operations (Time-critical may be milliseconds or it maybe hours, depending upon the service provided).	SP800-12	resources or services.	CISA	when legitimate users are unable to access information systems, devices, or other nerown's resources due to the actions of a mulcious cyler threat actor. Services affected may include email, websites, online accounts (e.g., bushing), or other services that evpl on the affected computer or network. A demilated "envice condition is accomplished by flooding the targeted host or network with traffic until the target cannot respond or simply craskes, preventing access for legitimate users. DoS attacks can cost an organization both time and money while their resources and services are inaccessible.	ST04-015					
denigration	(denigrate) to attack the reputation of	merriam- webster_dicti	(denigrate) to deny the importance or validity of o	merriam- webster_dictio							
dependability	of an item-ability to perform as and when required (note 1' includes availability, reliability, recoverability, maintainability, and maintenance support performance, and, in some cases, other characteristics such as durability, safety and security, botte 2 used as a collective term for the time-related quality characteristics of an	nary_2022 ISO/IEC_TS_ 5723:2022(en)		nary_2022							
d1	Note 2: used as a collective term for the time-related quality characteristics of an item).	mer c-6 **									
ucptoyment	item). Phase of a project in which a system is put into operation and cutover issues are resolved	cab									

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
escriptive analytics	Insights, reporting, and information answering the question, "Why did something happen?" Descriptive analytics determines information useful to understanding the cause(s) of an event(s).	g IEEE_Guide_I									[2] applicable
			t								
	motering (usa) produces consistent additioners for a given set on injust, in regardless of how may time the model for evaculational for mathematical characteristics are known in this case. None of them is random, and each problem has just one set of specified values as well as one amover or solution. It has been also also that the content of the content of the model. It deals with the definitive outcomes as opposed for random results and doesnit make allowances for error. An algorithm that, given the same inputs, always produces the same outputs.										
reloper	A general term that includes developers or manufacturers of systems, system components, or system services; systems integrators; vendors; and product resellers. Development of systems, components, or services can occur internally	SP800-37	Individual or organization that performs development activities (including requirements analysis, design, testing through acceptance) during the system or software life-cycle process.	IEEE_Soft_Vo							
gnostic analytics	within organizations or through external entities. Insights, reporting, and information answering the question, "Why did something happen?" Dispostic analytics determines information useful to understanding the cause(s) of an event(s).	g IEEE_Guide_I									
gnostics	Pertaining to the detection and isolation of faults or failures	IEEE_Software									
	values such as direct or indirect identifiers of individuals are harder to reveal. An important aspect of differential privacy is the concept of "epsilon" or ε , which determines the level of added noise. Epsilon is also known as the "privacy budget" or "privacy parameter".	enhancing_technologies	a algorithm SMS guarantees \temphs[8]\epsilon, \deta[s]\differential privacy) for any subset of the output SSI SSI SAS statisfies: \temphs[sequation] \text{P[M(IV) \in S] \equiv deta} \text{ \text{deta} \text{ \text{deta} \text{ \text{deta} \text{ \text{deta} \text{ \text{ \text{deta} \text{ \te	gong_differential_2020	4						
fferential validity	Differential validity states that the validities in two applicant populations are unequal, that is, $pi \models pa$.	hunter_differe									
gital labor	unequal, that is, pi != p.a. Digital automation of information technology systems and /or business processes that successfully delivers work output previously performed by human labor or new work output that would typically or alternatively have been performed by human labor.	FA IEEE_Guide_I									
gital workforce	human labor. The collective suite of automation technologies delivering existing or new work output as applied in a business; the manifestation of digital labor.	IEEE_Guide_I									
mension	output as applied in a business; the manifestation of digital labor. The dimension of an object is a topological measure of the size of its covering properties. Roughly speaking, it is the number of coordinates needed to specify a point on the object.	PA wolfram_math _2022	Distinct components that a multidimensional construct encompasses	IEEE_Soft_Vo							
mension reduction	Dimensionality reduction is the process of taking data in a high dimensional	Shalev-									
scrimination	space and mapping it into a new space whose dimensionality is much smaller Disadvantageous treatment of a person based on belonging to a category rather than on individual merit.	Shwartz,_Shai Žliobaitė_Indr ė									
isparate impact	Facially neutral practices that might nevertheless have an unjustified adverse impact on members of a protected class.	Lipton, _Zachary	For Predictor Y and Sensitive Impact S. Definition 6.2 Disparate Impact (Df) = $P[Y^*=1 \mid S \models I]/P[Y^*=1 \mid S=I]$	friedler_comp arative_2019							
sparate treatment	Intentional discrimination, including (i) decisions explicitly based on protected characteristics; and (ii) intentional discrimination via proxy variables (e.g. literacy tests for voting eligibility).	Lipton, _Zachary									
listributional obustness	tests for voting enginisty). Optimizing the predictive accuracy for a whole class of distributions instead of just a single target distribution.	Meinshausen, _Nicolai									
liversity	Diversity refers to anything that sets one individual apart from another, including the full spectrum of human demographic differences as well as the different	Seth_Boden_2 020	Diversity: The term diversity is used to describe individual differences (e.g. life experiences, learning and working styles, personality types) and group/social differences (e.g. race, socio-economic status, class, gender, sexual orientation,	GWU_diversit y_and_inclus	any dimension that can be used to differentiate groups and people from one another. It means respect for and appreciation of differences. But it's more than	HUD_diversity _and_inclusio	y the practice of including the many communities, identities, races, ethnicities, backgrounds, abilities, cultures, and beliefs of the American people, including	EO_DEIA_202 1			inclusion
			country of origin, ability, interfectual traditions and perspectives, as well as country, of origin, ability, interfectual traditions plant can be engaged to achieve calculate, planting, deposition, and one administrative and support services.	on	any disension that can be used to differentiate groups and people from one subsorber. It means reported for adjuspercious of differences, bit it is more than this. We all bring with us diverse perspectives, such experiences, bit explication that the properties of the properties of the district of the properties of the differences. Diversity is defined by the or are a stilled hill. IUD recognises that its strength ones from the dedication, experience, talently and perspectives of every employee. Derivative companies the properties of the properties of the district of the dedication, experience, talently and perspectives of extraordises where the district of the d	n	underserved communities.				
locumentation	Collection of documents on a given subject; written or pictorial information describing, defining, specifying, reporting, or certifying activities, requirements, procedures, or results.	IEEE_Soft_Vo									
omain	procedures, or results. Distinct scope, within which common characteristics are exhibited, common rules observed, and over which a distribution transparency is preserved.	IEEE_Soft_Vo	A set of elements, data, resources, and functions that share a commonality in combinations of: (1) roles supported. (2) rules governing their use, and (3)	SP800-160	<artificial intelligence=""> specific field of knowledgeor expertise</artificial>	aime_measure ment 2022.	e				
omain expertise	Domain expertise implies knowledge and understanding of the essential aspects	Machine Callery	protection needs.			citing ISO/IEC 2382					
	Differences between the source and target domain data	n Stacke,_Karin									distributional
rinking your own	The practice in which tech workers use their own product consistently to see how well it works and where improvements can be made.										shift dogfooding, eating your
		_									own dogfood
	The process in which one or more paths are defined and may be utilized based on the conditions present at the time of execution.	PA									
	capture information that can be used in a subsequent active attack to masquerade as the claimant.		An attack in which an attacker listens passively to the authentication protocol to capture information that can be used in a subsequent active attack to masquerade as the claimant.	CSRC	A form of active wiretapping attack in which the attacker intercepts and selectively modifies communicated data to misquerade as one or more of the entities involved in a communication association.	NIST_CSRC_ man-in-the- middle_attack	An attack in which an attacker is positioned between two communicating parties in order to intercept and/or alter data traveling between them. In the context of authentication, the attacker would be positioned between claimant and verifier, between registrant and CSP during enrollment, or between subscriber and CSP during authenticator binding.	NIST_CSRC_ man-in-the- middle_attack	An attack where the adversary positions himself in between the user and the system so that he can intercept and alter data traveling between them.	NIST_CSRC_ man-in-the- middle_attack	man-in-the- middle; interception attack
dge case	a problem or situation, especially in computer programming, that only happens at the highest or lowest end of a range of possible values or in extreme situations:	t cambridge_di tionary_2022									
ffective challenge	a problem or distution, especially incomparing programming, that only happeness the highest or boses and of a range of possible ulases or the attracts and successful the content of the c	Darnell_Coss_ Hall									
inscauling	an enhanceming as a representation of a topological object, intimions, graph, intox, etc. in a certain space in such a way that its connectivity or algebraic properties are preserved. For example, a field embedding preserves the algebraic structure of plus and times, an embedding of a topological space preserves open sets, and a graph embedding preserves connectivity.	_2022									
	One space X is embedded in another space Y when the properties of Y restricted to X are the same as the properties of X .										
mergent risks											ontological uncertainty
	The use of a data processing system to imitate another data processing system, so that the imitating system accepts the same data, executes the same programs, and achieves the same results as the imitated system.										
	An activity, task, or output that describes or defines the conclusion of a process.	PA									
	n. 3a: a designer or builder of engines; b: a person who is trained in or follows as a profession a branch of engineering; c: a person who carries through an enterprise by skillful or artful ontrivance; 4: a person who runs or supervises an engine or an apparatus.	a Merriam- e Webster_engi neer									
nsemble	learners") are trained to solve the same problem and combined to get better results. The main hypothesis is that when weak models are correctly combined	Joseph_Rocca _Ensemble_m ethods									
	we can obtain more accurate and/or robust models. Anything affecting a subject system or affected by a subject system through interactions with it, or anything sharing an interpretation of interactions with a	IEEE_Soft_Vo									
			The probability of a person in the positive class being correctly assigned a	Mehrabi,							
	to protected attribute A and outcome Y, if bY and A are independent conditional on Y.	_2016	The probability of a person in the positive class being correctly assigned a positive outcome and the probability of a person in a negative class being incorrectly assigned a positive outcome should both be the same for the protected and unprotected group members. In other words, the protected and unprotected group is should have equal rates for true positives and false positives.	_Ninareh							
quality of opportunity	(Equal opportunity). We say that a binary predictor bY satisfies equal opportunity with respect to A and Y if $Pr\{bY = 1 \mid A = 0; Y = 1\} = Pr\{bY = 1 \mid A = 1; Y = 1\}$.	hardt_equality _2016	The probability of a person in positive class being assigned to a positive outcome should be equal for both protected and unprotected group members. In other words, the protected and unprotected groups should have equal true positive								
TOF	The difference between the observed value of an index and its "true" value. Errors maybe random or systematic. Random errors are generally referred to as "errors". Systematic errors are called "blases".	s OECD	Difference between a computed, observed, or measured value or condition and the true, specified, or theoretically correct value or condition.	IEEE_Soft_Vo	measured quantity value minus a reference quantity value	aime_measure ment_2022, citing ISO/IEO Guide 99	e				
	****					Guide 99					

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3 Citation 3	n 3 Defi	inition 4	Citation 4	Definition 5 Citation 5	Related terms	i Legal
error propagation	the way in which uncertainties in the variables affect the uncertainty in the	Dorf_2018								[2] propgation of uncertainty:	applicable
error propagation	the way in which uncertainties in the variables affect the uncertainty in the calculated results.	Dorf_2018								propgation of uncertainty; proprgation o	f
ethics	definition is "2-set of manufacturing the charge or option of moral above," definition in the optional of moral production of the charge of moral and an above of definition in "2-security of the charge of the charge of the charge of definition is "2-security of the charge of the charge of the charge of definition is "2-security of the charge of the charge of definition is "2-security of the charge of production is "2-security of the charge of definition of the charge of the charge of the charge of definition of the charge of definition of the charge of definition of the charge of definition of		Le brazach of philosophy that investigates both the content of moral judgment. (fig., what is right and what is wrong used their nature (i.e., what is right and what is wrong used their nature (i.e., whether such judgments should be considered objective en appetred;). The study of the first type of question is isometimes termed isomative chicks and that of the second meanthers. As one distinct a pull-land pollution of the meanthers are considered in a specific field, in a perchaption of meanth of the second considered pulp-protein at a specific field in psychological research, for example that investigations report results and findings housely), See code of ethics; professional ethes; created using the considered professional ethes; created the size, which is sufficient to the considered professional ethes; created the size, whether the considered professional ethes; created the size, whether the considered professional ethes; created the size, which is sufficient to the considered professional ethers; created the size, whether the size of the si	APA_ethics						error	
ethics by design	An approach to technology ethics and a key component of responsible innovation that aims to integrate ethics in the design and development stage of the technology. Sometimes formulated as 'embedding values in design'. Similar terms are 'value-vensitive design' of 'ethically aliqued design'.	AI_Ethics_Mai k_Coeckelberg h	uni articognisti re por victoria di antingo robo day, accioni o cuma, professional ethics; research ethics. —ethical adj.								
evaluation	(I) systematic determination of the extent to which an entity meets its specified criteria; (Z) action that assesses the value of something	aime_measrue ment_2022, citing ISO/IEC 24765								Test, Evaluation, Verification and Validation	n
evasion	In Evasion Attacks, the adversary solves a constrained optimization problem to find a small input perturbation that causes a large change in the loss function and results in output misclassification.	tabassi_advers i arial_2019								(IEVV)	
example	definition I: "one that serves as a pattern to be imitated or not to be imitated"; definition 3: "one that is representative of all of a group or type"; definition 4: 'a	Merriam- Webster_exam									
exception	parallel or closely similar case especially when serving as a precedent or mode?, definition 5° in lancance (such as a problem to be solved) serving to illustrate a rule or precept or to act as an exercise in the application of a rule* An event than occur, during the performance of the process that causes a disersion from the normal flow of the process. Exceptions are generated by an unanticipated event within a process that on a undefined or unabnown linguit, undefined or unexpected outcome, or unforesseen sequencing of a task or event.	IEEE_Guide_I PA									
execute	To carry out a plan, a task command, or another instruction	SP1011	To carry out an instruction, process, or computer program; directing, managing, performing, and accomplishing the project work, providing the deliverables, and providing work performance information.	IEEE_Soft_Vo cab							
	one that exercises administrative or managerial control	Merriam- Webster_exec utive									
ex-nomination	Ex-nomination is the harm of eliminating social identity by almost ignoring its existence. This term consection flarthers where he coincel it to describe which bourgooise do so the first man and olderstry hy not referring to themselves as such to naturalize bourgoois ideology. This can show up in some of the same scanning as mentioned above, see re-nomination can present itself in technology took recognizing a certain class of people with facial recognition technology or by having implicit biaset bounder certain classes.	Blank, _Abagayle_Le e									
experiment	awang unlight mouth and market and dispersion of the control time of time of the control time of t	apa_experime nt_2023	A study of a fundamental physical process by the use of one or more computer simulators. Life empirical experiments, input variables (therein) are systematically bringed to some other impact to positionation or progress of the control of the cont	nist_statistics _2012							
	medical diagnosis. It combines a knowledge base with a set of hand-coded rules for applying that knowledge. Machine-learning techniques are increasingly replacing hand coding.	_Matthew	Intelligent computer program that uses knowledge and inference procedures to soole problems that are difficult enough to require significant human expertise for their solution.	Reznik,_Leon	An expert system is an intelligent computer program that uses knowledge and interence procedures to solve problems that are difficult enough to require significant human expertise for their solution.	Com appli hum	aputer system that provides for expertly solving problems in a given field or ication area by drawing inferences from a knowledge base developed from an expertise.	IEEE_Soft_Vo cab	A computer system emulating the decision-making ability of a human expert through the use of reasoning, leveraging an encoding of domain-specific knowledge most commonly represented by sets of if-then rules rather than procedural code. The term's expert system was used largely during the 1970s and 30s amidst great exthnisions about the power and promise of rule-based systems procedured to the control of the		
expertise	The accumulation of specialized knowledge is often called expertise. Passive expertise is a type of knowledge-based specialization that arises from sexperiences in life and one's position in a society or culture. Formal expertise is the result of a self-selection of a domain of knowledge that is mastered deliberately and for which there are clear benchmarks of success.	Schneider_Mc Grew_in_Flan agan_McDono ugh_2018									
explainability	The ability to provide a human interpretable explanation for a machine learning prediction and produce insights about the causes of decisions, potentially to line up with human reasoning.	NISTIR_8269_ Draft	Within the context of AI, the extent to which AI decisioning processes and outcomes are reasonably understood.	Comptroller_C ffice	The ability to explain or be explained. In the context of ethics, it refers to the ability to explain to others why you have done something or why you have made a decision; this is part of what it means to be responsible. Al_Ethics, Al_Ethics,	ics_Mar A ch ckelberg evide unde refle were	naracteristic of an AI system in which there is provision of accompanying ence or reasons for system output in a manner that is meaningful or restandable to individual users (as well as to developers and auditors) and exist the system's process for generating the output (e.g., what alternatives e onsidered. but not prosoned, and why not.)	NSCAI		interpretabilit	y
	XM seeks to make AI more understandable and interpretable, and therefore transvorterly, one of the complaints about artificial intelligence is the lack of transparency in how it operates. Many algorithm developers don't reveal the data that go into applications or how various factors are weighted and analyzed. That, leads to a situation where outsiders cannot understand or explain how AI reads and a situation where outsiders cannot understand or explain how AI and considerate the control of the control of the control of the control of the deposit to inspect the own set book AI, and then not true AII particular or creation AI applications in particular. XIA seeks to belp describe either the overall function of AI or the specific way it reaches decisions.		Al that can explain to humans its actions, decisions, or recommendations, or can provide sufficient information about how it came to its result.	AI_Ethics_Ma k_Coeckelberg h							
explainer	Functionality for providing details on or causes for fairness metric results.	AI_Fairness_3 60									
		Draft	The explanation principle obligates AI systems to supply evidence, support, or reasoning for each output.	NISTIR_8312							
	Exploratory Data Analysis (EDA) is an approach/philosophy for data analysis that employs a variety of techniques (mostly graphical) to 1. maximize insight into a data set; 2. uncover underlying structure; 3. extract important variables; 4. detect outliers and anomalies; 5. test underlying assumptions; 6. develop parsimonious models; and 7. determine optimal factor settings.										
external validity	omdels; and 7, determine optimal factor settings. A study has external validity to the degree that its results can be extended (generalized) beyond the limited research setting and sample in which they were obtained	rch_2011	the extent to which the results of research or testing can be generalized beyond the sample that generated them. The more specialized the sample, the less likely will it be that the results are highly generalizable to other individuals, situations, and time periods.	APA_external_ validity							
facial recognition (FR)	A nethodology for shortifying-specific based conjecture or velocon. It operates by analysing dearn such as the settine to the fines for the distance between the eyes, and the angles between a person's eyes, now, and mouth it is concorrectual because to dworrise about privacy anison, multious application, or about by government or corporate entities. In addition, there have been well-documented biases by race and gooder with many facial recognition algorithms.	Brookings_Institution	and total persons. Records the spatial gournery of distinguishing features of the face. Different Records the spatial gournery of the distinguishing features of the face. Records and the spatial government of the distinguishing features of the face. Records and the spatial government of the face.	Woodward	These recognition algorithms, however, here as holds is noticed of a particular person. They are not faint in dentity particular person. They are not faint in dentity particular person. They are not faint in dentity affecting point instead they include a face detector followed by a feature extraction algorithm that converts one or more images of a person into a vector of values that rufer to the destingy of the contraction of the contraction of the contraction of the developer. In operations, they act as a generic extraction of density-variedate information from photon of person they of the contraction of the contraction of the developer. In operations, they act as a generic extraction of density-variedate information from photon of person on the contraction of the developer. In operation, they act as generic extraction of the developer in operations from photon of the contraction of the developer. In operation, they are the contraction of the contraction of the developer in operation of the contraction of the developer in operation of the contraction of the co	2.8280					
fair-washing	promoting the false perception that a machine learning model respects some ethical values	aivodji_fairwas			identity information stored in a feature vector (or "template").						
fairness (another entry for 'algorithmic fairness''?)	"cultural assumptions" regarding "the regulation of [human] life effected by stated and unstated rules of interaction," rules that most interactants see as "generally applicable" and "reasonable." (We have to get the full definition from the book	hing_2019 Anna Wierzbicka, English: Meaning and Culture (Oxford: Oxford University Press, 2006), 152-54									
fairness metric	A quantification of unwanted bias in training data or models.	AI_Fairness_3 60	A numbersital definition of "fairness" that is measurable. Some commonly used fairness metrics include: equalized odds, predictors party predictors party party for the party party from the party party from the party fairness metrics are mutually exclusive; see incompatibility of fairness metrics are mutually exclusive; see incompatibility of fairness metrics.	google_glossa y_2023							

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5 Cita	ation 5	Related terms Legal and synonyms definition
false negative	An example in which the predictive model mistakenly classifies an item as in the negative class.	NSCAI	an outcome where the model incorrectly predicts the negative class.	google_dev_c assification- true-false- positive- negative	A false negative is denying an applicant who should be approved	Varshney, _Kush	1. An instance in which a security tool intended to detect a particular threat fails to do so. 2. Incorrectly classifying malicious activity as benign.	CSRC_false_n egative		7	[2] applicable Type II error (in statistics)
false positive	An example in which the model mintakenly classifies an item as in the positive class	NSCAI	an outcome where the model incorrectly predicts the positive class.	google_dev_c assification- true-false- positive- negative	A false positive is approving an applicant who should be desired	Varshney, _Kush	1.4 as der that incorrectly indicates that a valuerability is present. 2. As all ert that incorrectly indicates than indicates aritiny is occurring as a market in a which a security to discorrectly disatilities being counter as maletons. As correctly cassilities being extraor as maletons. 5. As correctly cassility being activity as maleton in a statement of the important event of the production of the important event of the concerned cassilities. 5. As correctly cassilities with a statement of the important event of the concerned as a special event when Haulth-testing the components of a declaration that a component has malifunctioned—based on some control and a present present in the component of a maleton control cassilities designed event for the fact that the component was actually working actually working actually castle of the control of the c	CSRC_false_p ositive		S	Type I error (in statistics)
fault tolerance	The ability of a system or component to continue normal operation despite the presence of hardware or software faults	SP1011									
favorable label	A label whose value corresponds to an outcome that provides an advantage to the recipient. The opposite is an unfavorable label.	Al_Fairness_3 60									
feature	An attribute containing information for predicting the label.	AI_Fairness_3									
feature extraction	a more general method in which one tries to develop a transformation of the input space onto the lowdimensional subspace that preserves most of the relevant information	khalid_feature _2014									
feature importance	relevant information how important the feature was for the classification performance of the model; a measure of the individual contribution of the corresponding feature for a particular classifier, regardless of the shape (e.g., linear or nonlinear relatioshly) or direction of the feature effect	saarela_featur e_2021									
feature shift	Utilize join distribution shift detection, which cannot recaltive which features accused the shift, we define a new hypothesis not for each feature in shirdually, accused the shift, we define a new hypothesis not for each feature in shirtually, and the shirtual sh	kulinski_featur e_2020									
reuerated rearring	a scarning induce which addresses the problem of data governance and privacy by training algorithms collaboratively without transferring the data to another location	_and_Informa									
feedback loop	describes the process of leveraging the output of an AI system and corresponding end-user actions in order to retrain and improve models over time. The AI- generated output (predictions or recommendations) are compared against the final decision (for example, to perform work or not) and provides feedback to the model. The other hands of the company of the compa	C3. ai_feedback_l oop								i	closed-loop learning
fitting	Fitting is the process of verifying whether the data item value is in the previously specified interval.	OECD									
firmware	Computer programs and data stored in hardware - typically in read-only memory (ROM) or programmable read-only memory (PROM) - such that the programs and data cannot be dynamically written or modified during execution of the programs.	SP800-37	Combination of a hardware device and computer instructions or computer data that reside as read only software on the hardware device.								
Forecasting	Estimate or prediction of conditions and events in the project's future based on information and knowledge available at the time of the forecast. The information is based on the project's past performance and expected future performance, and includes information that could impact the project in the future, such as estimate	IEEE_Soft_Vo	Predicting the future as accurately as possible, given all of the information available, including historical data and knowledge of any future events that might impact the forecasts.	Hyndman, _Rob							
four-fifths rule	consider a selection rate for any race, sex, or ethnic group which is less than four-fifths (4/Sha) or eighty percent (80%) of the selection rate for the group with the highest selection rate as a substantially different rate of selection This 4/Sth's or '980'' rule of thumbs to not intended as a legal definition, but is a practical means of keeping the attention of the enforcement agencies on serious discrepancies in rates of hirting promotion and other selection decisions.	EEOC_Q&A_E mployee_Selection									
	avoid undesirable behavior	racas_races	detecting and recognizing fraudulent activities as they enter systems and report them to a system manager.	Behdad							
fully autonomous		SP1011									
	intervention where assipting to operations and revinousmental containances Ceneratize Adversarial Networks, or Other Soft so there, are an approach to generative modeling using deep learning methods, such as convolutional neural networks. Generative modeling is an unapserviced learning task in machine learning that involves automatically discovering and learning the regularities or patterns in input data in such as way that the model can be used to generate or output new examples that plausibly could have been drawn from the original dataset.		A pair of jointly trained neural networks that generates realistic new data and improves through competition. One net creates new examples (fake Picassos, say) as the other tries to detect the fakes.	Hutson, _Matthew	Generative adversarial networks (GANN) consist of two competing neural networks—a generator network that tries to create falls outputs gisch as pictures), and a discriminator network that tries to determine whether the outputs are real or fake. A major advantage of this structure is that GANs can learn from less data than other deep learning algorithms.	CRS_AI	An approach to training Al models useful for applications like data synthesis, augmentation, and compression where two neural networks are trained in tandem one is designed to be a generative network (the forger) and the other a discriminative network (the forger) detector). The objective is for each network to train and better inself off the other, reducing the need for big labeled training data.	NSCAI			
generative artificial intelligence	[a kind of artificial intelligence] capable of generating new content such as code, images, music, text, simulations, 3D objects, videos, and so on. It is considered an important part of AI research and development, as it has the potential to revolutionize many industries, including entertainment, art, and design.	Arham_Islam_ History_2023	describes algorithms (such as ChatGPT) that can be used to create new content, including audio, code, images, text, simulations, and videos.	McKinsey_ger erative_Al							
	[An approach that] [t]ries to understand the model as a whole.		A global explanation produces a model that approximates the non-interpretable model	NISTIR_8312_ Full							
governance	The actions to ensure stakeholder needs, conditions, and options are evaluated to determine balanced, agreed-upon enterprise objectives; setting direction through prioritization and decision-making, and monitoring performance and compliance against agreed-upon directions and objectives. All governance may include policies on the nature of Al applications developed and deployed versus those limited or withheld.	NSCAI	A framework of policies, rules, and processes for ensuring direction, management and accountability.								
grape	Diagram that represents the variation of a variance in comparison with that of one or more other variables. Diagram or other representation consisting of a finite set of nodes and internode connections called edges or arcs.	cab	A graph (sometimes called an undirected graph to distinguish it from a directed graph, or a simple graph to distinguish it from a multigraph) is a pair G = (V, E), where V is a set whose elements are called vertices (singular: vertex), and E is a set of paired vertices, whose elements are called edges (sometimes links or lines).	wikipedia_gra ph_2023							
	A specialized chip capable of highly parallel processing, GPUs are well-suited for running machine learning and deep learning algorithms, GPUs were first developed for efficient parallel processing of arrays of values used in computer graphics. Modern-day GPUs are designed to be optimized for machine learning.										
	graphocs. Modern-ray virs are neagines to ne optimized for macinine inarming. A GUI is a type of computer human interface on a computer. Its nodes the blank screen problem that confronted early computer users. These early users sat down in front of a computer and faced a blank screen, with only a prompt. The computer gave the user no indication what the user was to do next. GUIs are an attempt to solve this blank screen problem. As conceptual evel, a computer a tutient per thin the size is meant by which people and computers communicate with each other?										
ground truth	information provided by direct observation as opposed to information provided by inference	Collins_Dictio nary_ground_ truth	value of the target variable for a particular item of labelledinput data	alme_measure ment_2022, citing ISO/IEC	In most accounts of supervised (machine) learning, the ground truth is considered to be the 'dependent variable' that is predicted by a collection of features (independent variables).	Muller, _Michael					
group fairness	The goal of groups defined by protected attributes receiving similar treatments	Al_Fairness_3	Treat different groups equally	Z2989 Mehrabi,							
hacker	or outcomes. Unauthorized user who attempts to or gains access to an information system.			_Ninareh IEEE_Soft_Vo							
hallucination	generated content that is nonsensical or unfaithful to the provided source content? I there are two main types of ballucinations, namely intrinsic	Survey_of_Hal lucination_in_ NLG	and means to gain unauthorized access to protected resources. when a bot confidently says something that is not true.	cab Liam_Tung_2 022_Meta_ha ucination							
hardware	output can neither be supported nor contradicted by the source). Physical equipment used to process, store, or transmit computer programs or	IEEE_Soft_Vo									
harm	data An undesired outcome [whose] cost exceeds some threshold[; _] the key points in the definition of safety are that: costs have to be sufficiently high in some human sense for events to be harmful, and that safety involves reducing both the probability of expected harms and the possibility of unexpected harms.	Engineering_s afety_in_mach ine_learning	to damage, injure or hurt.	Black's_Law_ Dictionary_ha m							
harmful bias	probability of expected harms and the possibility of unexpected harms. Harmful blass can be their conscious or unconscious. Unconscious, also bown as implicit bias, involves associations outside conscious auereness that lead to a singuistive evaluation of a person on the basis of characteristics such as race, egorder, sexual orientation, or physical ability 3,34 Discrimination is behavior; discriminative y activate prepertant by lindividuals or institutions erfect to inequiliable treatment of mentilenes of certain social groups that results in social aduntages or disastructurage.	humphrey_add ressing_2020									
harms of allocation	advantages or disadvantages unfairly assigned opportunities or resources due to algorithmic intervention[:] when a system [distributes] or withholds certain groups an opportunity or a resource. [They are] immediate, easily quantifiable, discrete, and transactional.	Lim_Swee_Kia t_harms									

Term	ns Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
harms of bias	a skew that produces a type of harm[;] further classifie[d] into harms of allocation and harms of representation.	Lim_Swee_Kia t_harms									[2] applicable
narms of	algorithmically filtered depictions that are discriminatory. [They are] long term, difficult to formalize, diffuse, and cultural.	Lim_Swee_Kia									content harms
representation human activity recognition (HAR)	difficult to formalize, diffuse, and cultural. the art of identifying and naming activities using [a]rtificial [i]ntellligence (AI) from the gathered activity raw data by utilizing various sources (so-called	t_harms Gupta_et_al_ HAR_2022									
numan-assisted	devices). The type of human-robot-interaction that that refers to situations during which human interactions are needed at the level of detail of task plans, i.e., during the execution of a task										
uman capital											
management	A C-sune oussiles descipate that develope enterprise numan cipitat strategies and ensures the human capital portions in effectively managed. Human capital management provides decision support by combining business and worldcore of the combining										
human-computer interaction (HCI)	methods and approaches for designing and architecting user interfaces and the interactions between humans and computer (or information) technology.	Poore_Lawren ce_ARLIS_202									
human-cognitive bias		NIST_AI_RMF _10	Systematic error in judgment and decision-making common to all human beings which can be due to cognitive limitations, motivational factors, and/or adaptations to natural environments.								
human-enabled machine learning	use, including the design, implementation, operation, and maintenance of Al. Detection, correlation, and pattern recognition generated through machine- based observation of human operation of software systems capturing successful or unsuccessful operations to enable the creation of a useful predictive analytics	IEEE_Guide_I PA									
human experiment	capability. anything done to an individual to learn how it will affect [that person].	Bassiouni Baff									
human-in-the-loop	An AI system that requires human interaction.	es_Evrard DOD_Modelin									
		g_and_Simula tion_Glossary									
human-machine teaming (HMT)	The ability of humans and Al systems to work together to undertaile complex couching tasks in surferly of enrolments with ceanines handef both ways between human and Al team members. Areas of effort include developing effective policies for controlling human and machine institutives, computing methods that ideally complement people, methods that optimize goals of teamwork, and designs that enhance human-al interaction.	NSCAI	methods and approaches for coordinating the functions and actions of (semi) autonomous machine capabilities and human users, which are granted equal weighting.	Poore_Lawrer ce_ARLIS_200 3-01							human-AI teaming
human-operator- intervention	The need for human interaction in a normally fully autonomous behavior due to some extenuating circumstances.	SP1011									
human subjects	a living individual about whom an investigator (whether professional or student) conducting research: (i) Obtains information or biospecimens through intervention or interaction with the individual, and uses, studies, or analyzes the information or biospecimens; or (ii) Obtains, uses, studes, analyzes, or generates identifiable private information or identifiable biospecimens.										participant
human system	identifiable private information or identifiable biospecimens. methods and approaches for testing and optimizing all human-related considerations from a "whole-system" or "system-of-systems" level.	Poore_Lawren									
integration (HSI)		ce_ARLIS_202 3-01				Batan P. C.					
numan vaues	settled intelligence systems use data we generate in our day leves and a such as a mitter of our terms, whateness on differences and intelligence. He was a sufficience of the such intelligence, the least product the technology as not when research. Understanding the values behind the technology and deciding on how we want our values to the interportant in Al systems requires that we are also able to decide on how and what we ware Al to systems requires that we are also able to decide on how and what we ware Al to good the systems of the such as a support of difference in interests and aims behind Al systems developed by others according to enter chairms and principles. See not.	virginia_Dignu m_Responsibil ty_and_Artific ial_Intelligenc e	The quantity which a function I takes upon approximon to a given quantity.	worram_matr _2022	what is important to people in their lives, with a focus on ethès and morality. Work to date has emphasized human well-being, dignity, and justice	Batya_Friedm n_VSD_Introc uction					
hyperparameters	the parameters that are used to either configure a ML model (e.g., the penalty parameter C in a support vector machine, and the learning rate to train a neural networly or to specify the algorithm used to minimize the loss function (e.g., the activation function and optimizer types in a neural network, and the kernel type in a support vector machine;	On_Hyperpara meter_Optimi zation									
hypothesis testing	A term used generally to refer to testing significance when specific alternatives to the null hypothesis are considered.	OECD									
impact		ct	a powerful effect that something, especially something new, has on a situation or person	cambridge_im pact_2023							
impact assessment	a risk management tool that seeks to ensure an organization has sufficiently considered a system's relative benefits and costs before implementation. In the context of AL, an impact assessment helps to answer a simple question: alongside this system's intended use, for whom could it fail?	Bipartisan_Pol cy_Center_im pact_assessme									
impersonation	this system intended use, for whom could it full. A multicous individual is able to lingersounds a eligitimate data subject to the data countriel. The adversary longs a suital access request and goes through the countriel. The adversary for last a side of section and subject. Teledrating processor is the primary objective of any sutheritation protocol. The result of this attack is the primary objective of any sutheritation protocol. The result of this attack is a data breach lie, glosgers (sel) persent on the someone they are not in order to whereif so on the information they are seeking obtaining information illegity which they these welf for a spectral protocol.	Security_Analy sis_of_Subject _Access									
in-processing	which they then sell for a specified price). Techniques that modify the algorithms in order to mitigate bias during model training. Model training processes could incorporate changes to the objective (cost) function or impose a new optimization constraint.	SP1270	Techniques that try to modify and change state-of-the-art learning algorithms to remove discrimination during the model training process.	Mehrabi, _Ninareh							
in-processing	A bias mitigation algorithm that is applied to a model during its training.	AI_Fairness_3									
algorithm incident		60 Al_Incident_D	the occurrence of a technical event that affects the integrity of a Product and/or	FBPML_Wiki	an alleged harm or near harm event to people, property, or the environment	AI_Incident_E	Adverse event(s) in a computer system or networks caused by a failure of a security mechanism, or an attempted or threatened breach of these mechanisms	HasanRaza			
incident response	a public official response to an incident from an entity (i.e. company, organization, individual) allegedly responsible for developing or deploying the Al or AI system involved in said incident.	AIID_incident response	Model.		where an As system is implicated.	aitors	security mechanism, or an attempted or threatened breach of these mechanisms				
inclusion	or AI system involved in said incident.		describined the active intentional and consider anonament with discourse	GWI disser-te	a state of being valued, respected and supported. We about focusing a state of being valued.	s HUD disserte	with proposition appreciation and use of the telepte and skills of are-1	EO DEIA 200			diversity
	a rutural and environmental feeling of behavior and sense of uninvesses. It			y_and_inclusi	of every individual and emairing the right conditions are in place for each protein charles when the right possible charles contained to be reflected in an organization charles contained to the right possible charles when the place to support an organization charles contained to the reflection of th	and_inclusion	y the recognition, appreciation, and use of the talents and skills of employees of all backgrounds.	1			urtiony
	a cultural and environmental feeling of belonging and sense of uniqueness. It represents the extent to which employees feel valued, respected, encouraged to fully participate, and able to be their authentic selves.	Seth_Boden_2 020			set of behaviors (culture) that encourages employees to feel valued for their unique qualities and experience a sense of belonging.						
independence	Of software quality assurance (SQA), situation in which SQA is free from technical, managerial, and financial influences, intentional or unintentional	IEEE_Soft_Vo cab	Two events are independent if the occurrence of one event does not affect the chances of the occurrence of the other event. The mathematical formulation of the independence of events A and B is the probability of the occurrence of both A and B being equal to the product of the probabilities of A and B (Le, P(A) and B) = P(A)(R[B))	nist_800_201	In simple terms, inclusion is getting the mix to work together.						
individual fairness	The goal of similar individuals receiving similar treatments or outcomes.	Al_Fairness_3 60	Give similar predictions to similar individuals	Mehrabi, _Ninareh	A fairness metricthat checks whether similar individuals are classified similarly	aime_measure ment_2022 citing Machine Learning Glossary by	s s				
inference	The stage of ML in which a model is applied to a task. For example, a classifier model produces the classification of a test sample.	NISTIR_8269_				Google					
information input	model produces the classification of a test sample. One of the three components of a model. This component delivers assumptions	Draft Comptroller C									
component information security	One of the three components of a model. This component delivers assumptions and data to the model. preservation of confidentiality, integrity and availability of information; in	ISO/IEC_TS_									
	addition, other properties, such as authenticity, accountability, non-repudiation, and reliability can also be involved.	5723-2022(en)									
input	Data received from an external source	IEEE_Soft_Vo									
insider attack	Those who are within [an] organisation may have authorised access to vast amounts of sensitive company records that are essential for maintaining competitiveness and market position, and knowledge of information services and procedures that are crucial for dully operations [and should an individual choose to act against the organisation, then with their privileged access and their extensive knowledge, they are well positioned to cause serious durange.	IEEE_Caught_ in_the_Act									

Term	s Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Lega and synonyms defin [2] appl
n silico	carrying out some experiment by means of a computer simulation	World_Wide_ Words_In_sili									computer simulation
istance	Discrete, bounded thing with an intrinsic, immutable, and unique identity. Individual occurrence of a type	co IEEE_Soft_Vo cab	A single object of the world from which a model will be learned, or on which a model will be used (e.g., for prediction).	Kohavi,_Ron							testing
istance weight	A numerical value that multiplies the contribution of a data point in a model.	AI_Fairness_3 60									
tegrity			Guarding against improper information modification or destruction, and include ensuring information non-repudiation and authenticity.	s CSRC	The property whereby information, an information system, or a component of a system has not been modified or destroyed in an unauthorized manner.	CISA	<data> property whereby data have not been altered in an unauthorized manner since they were created, transmitted, or stored; <systems> property of accuracy and completeness</systems></data>	ISO/IEC_TS_ 5723:2022(en)	the quality of moral consistency, honesty, and truthfulness with oneself and others.	APA_integrity	
telligent process atomation	A preconfigured software instance that combine business rules, experience- based context determination logic, and decision retriest to minist and occustor multiple interrelated human and automated processes in a dynamic context. The goal is to complete the execution of a combination of processes, activities, and tasks in one or more unrelated software systems that deliver a result or service with minimal or no human intervention.	IEEE_Guide_I PA									
teraction ternal validity	Action that takes place with the participation of the environment of the object.	cab		APA_internal_							
	The ability of your research design to adequately test your hypotheses	rch_2010	the phenomenon. In other words, internal validity pertains to the soundness of results obtained within the controlled conditions of a particular study, specifically with respect to whether one can draw reasonable conclusions about cause—and-effect relationshios among variables.	validity							
nteroperability	The ability of software or hardware systems or components to operate together successfully with minimal effort by end user. The ability to undestrained the value and accuracy of partern output.	NSCAI	Degree to which two or more systems, products or components can exchange information and use the information that has been exchanged. The ability to explain or to present an MI model's responding in understandable.		The ability for tools to work together in execution, communication, and data exchange under specific conditions.	NIS1_I300					evoloinohility
,	Interpretability refers to the extent to which a cause and effect can be observed within •a system or to which what is going to happen given a change in input or algorithmic parameters can be predicted.		The ability to explain or to present an ML model's reasoning in understandable terms to a human	ment_2022, citing Machine Learning Glossary by Google							
nterpretable model	An interpretable machine learning model obeys a domain-specific set of constraints to allow it (or its predictions, or the data) to be more easily understood by humans. These constraints can differ dramatically depending on the domain	rudin_interpre table_2022									
ntervenability		Covert_et_al									
idll switch	a form of safety mechanism used to completely shut off a device in case of an emergency situation where it cannot be shut off using the normal process or if immediate shut off is required.	Techopedia_ki Il_switch									
knowledge	immediate shut off is required. The sum of all information derived from diagnostic, descriptive, predictive, and prescriptive analytics embedded in or available to or from a cognitive computing system.	IEEE_Guide_I PA	cartificial intelligences abstracted informationabout objects, events, concepts or rules, their relationships and properties, organizedfor goal-oriented systematic use	aime_measure ment_2022, citinig ISO/IEI 22989							
label	A value corresponding to an outcome.	AI_Fairness_3 60	target variable assigned to a sample	aime_measure ment_2022, citing ISO/IEC							
abel shift	Under label shift, the label distribution p(y) might change but the class- conditional distributions p(x)y) do not We work with the label shift assumption, i.e., ps(x)y) = ps(x)y)	saurabh_label _2020		22989							
rge language model .LM)		Al_Assurance_									language model
LLM	models that output text, such as the answer to a question or even writing an essay on a specific topic. They are typically unsupervised or semi-supervised learning models that predict what the response is for a given task. Discriminatory LLMs are supervised learning models that usually focus on classifying text, such as determining whether a text was made by a human or Al.										model
language model	regularities present in natural language and is used for making assumptions on	Gustavii,_Ebba									large language model (LLM)
earning	per roomy waster unageage tragmented by which an artificial intelligence program temperores its performance by guinting knowledge.	Dennis_Merca dal	the acquisition of novel information, behaviors, or abilities after practice, observation, or other experiences, as evidenced by change in behavior, knowledge, or brain function. Learning involves consciously or nonconsciously attending to relevant aspects of incoming information, mentally organizing the information into a coherent cognitive representation, and integrating it with relevant existing knowledge activated from long-term memory.	APA_learning							
least privilege	The principle that a security architecture should be designed so that each entity is granted the minimum system resources and authorizations that the entity needs to perform its function.	CSRC	The security objective of granting users only those accesses they need to perform their official duties.	SP-800-12							
emmatization	the process of grouping together the different inflected forms of a word so they can be analyzed as a single item.	Artasanchez_J oshi_AI_with_ Python	in natural language processing [,] working with words according to their root lexical components	Techopedia_le mmatization	grouping together words with the same root or lemma but with different inflections or derivatives of meaning so they can be analyzed as one item.	Techslang_len matization	n the grouping together of different forms of the same word.	TechTarget_le mmatization			
inear model	[a supervised learning algorithm that uses] a simple formula to find a best-fit line through a set of data points.		(linear). An operator $1.^{\sim}$ is said to be linear if, for every pair of functions f and g and scalar t, $1(4f+g)^{\alpha}1.^{-4}1.^{\sim}g$ and								
iocal	Mainly focus on explanation of individual data instances. Generates one explanation map g perdata x \in X.	arun_opportu	L^-(tf)+tL^-f. A local explanation explains a subset of decisions or is a per-decision explanation	NISTIR_8312_ Full							
ocalization	Creation of a national or specific regional version of a product.	IEEE_Soft_Vo									
iogistic model	(logistic equation) The continuous version of the logistic model is described by the differential equation (logistic model and described by the differential equation (logistic model) and the differential equation										
machine learning	(3) The function x(t) is sometimes known as the sigmoid function. A general approach for determining models from data.	Al Esimon "	Machine Learning is the study of company to the study of	Mitch-II =	Machine learning is based on algorithms that are found in the second of the second on	Dula red f	The study or the application of computer all within that in a second or the study or the application of computer all within that is a second or the study or the application of computer all within the second or the study or the	NSCAL	A subcoteoper of artificial intelligence comband of definitions	Compteelles	
ascause searning		60	Machine Learning is the study of computer algorithms that improve automatically through experience.	AUGUNEH,_TOT	on rules-based programming.	. yie_and_San _José	1 The study or the application of computer algorithms that improve automatically through experience. Machine learning algorithms build a model based on training data in order to perform a specific task, like aiding in prediction or decision- making processes, without necessarily being explicitly programmed to do so	1404.74	A subcategory of artificial intelligence; a method of designing a sequence of actions to solve a problem that optimizes automatically through experience and with limited or no human intervention.	Comptroller_C ffice	
nachine observation	Machine detection and interpretation of relevant and meaningful events and conditions that impact operation of the computer system itself or other dependent mechanisms or processes essential to the purpose of the system. See had actor.	IEEE_Guide_I PA									
alware	Charles and Company of the Company o	Reznik,_Leon	Software that compromises the operation of a system by performing an unauthorized function or process.	CISA							trojan horse
ateriality	Refers to the significance of a matter in relation to a set of financial or performance information. If a matter is material to the set of information, then it	OECD									
AcNamara fallacy	presum[ing] that (A) quantitative models of reality are always more accurate than other models; (B) the quantitative measurements that can be made most easily must be the most relevant; and (C) factors other than those currently being used in quantitative metrics must either not exist or not have a significant influence on success. This fluwed approach to reasoning is also known as the quantitative	McNamara_Fa lacy									quantitative fallacy
neasurement	and the control of th	aime_measure ment_2022, citing ISO/IEC 24765	Qualitative (i) a very of learning about need in railing. [I] that used a presender, [.] to explain, code-from every last social presenceding insertion for semigrape people acretic to activities, situations, creats, or furtifacts). Publical adopts of moderationaling about none spect of social life, built whice descriptions (see a consistent of the constraint of the cons	Leavy_OHQR_ Intro	Qualitative measurement engages research methods and techniques to provided information about the internet of phonomenous Qualitative embrohas area designed for systematic collection, organization, description and interpretation of non-market (perinal, video or visual) data plannance (e.g. 2010), Qualitative methods are consistent or visual data plannance (e.g. 2010), Qualitative measurement (e.g. 2010), Qualitativ	Hammarberg_ 2016_Busetto_ 2020	Documentation of assumptions and methods used it is foundational element of quilitative measurement, at the chief or single or combined methods in such based on the phenomenon and its context (Bassell & Gregory, 2003). When approprietably parties, qualitative and equattriative measurement can provide appropriately parties, qualitative and equattriative measurement can provide for complementarity or contradiction (Brassner, 2005).	Russell_2003_ Brannen_2005			

Terms I	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms	Legal
	generic description of a logical organization of operations used in a measurement		had all accounts of a continue described according to continue and the continue according to the	aime_measure							and synonyms [2]	applicable
		ment_2022, citing ISO/IEC Guide 99	attribute with respect to a specified scale	ment_2022, citing ISO/IEC 24765								
measurement model T	The initial confirmatory factory analysis (CFA) model that underlies the structural model (that) tests the adequacy (as indexed by model fit) of the specified relations whereby indicators are linked to their underlying construct.	Little_2013		jackman_oxfor d_2008								
measurability a	ability to assess an attribute of an entity against a metric (note 1: "measurable" is											
membership inference g	given a machine learning model and a record, determining whether the record was used as part of the model's training dataset or not.	37232022(0.11)										
netadata N	Metadata is data that defines and describes other data.	OECD	Data that describe other data.	IEEE_Soft_Vo	Data employed to annotate other data with descriptive information, possibly including their data descriptions, data about data ownership, access paths, access rights, and data volatility.							
metric d	defined measurement method and measurement scale	ISO/IEC_TS_ 5723:2022(en)	(f) quantitative measure of the degree to which a system, component, or process possesses a given attribute; (2) defined measurement method and the measurement scale; c.f., measure in this section above	aime_measure ment 2022.	access rights, and data volatility.							
ninimization (1 a p till till till till till till till ti	First of the COT framework for an adding, 0,10 systems generally enquire large monetors of data, abover, originations must comply with the minimization principle under data protection law of uniting personal data. This means ensuring that any personal data is adequate, referent and familiated to what in secretary for the contraction of the contraction of the contraction of the contraction of the sections in designing and building at systems will not excessaryly take into sections in designation contraction. Operations on must therefore have in contracting the contraction of the contraction of the contraction of the section of the data of the contraction of the contraction of the contraction of the section of the contraction of the contraction of the contraction of the section of the contraction of the contraction of the contraction of the section of the contraction of the contraction of the contraction of the section of the section of the contraction of the contraction of the section of the section of the section of the contraction of the section of the s	ICO_data_min imisation	a fast, construint chould limit the cultivation of personal information to what in directly relevant and increases up to excenplish a specific papers. For the shoot also retain the date only for as long as in necessary to fulfill that purpose. In other word, date controllers beaded collect only the personal date they regular controllers of the personal date they regular principle is expressed in stricts (1995) of first CDPF and Article (1995) of first CDPF a	citing ISO/IEC 24765 EDPS_data_mi nimization								
nitigation ti	the process of lessening the severity of stereotypical/unjust associations and disparate model performance.	Arjun_Subram onian_bias_mi tigation										
q ir ir o	In mixed methods, the researcher collects and analyzes both qualitative and quantitative data rignorously in response to research questions and hypotheses; integrates the two forms of data and their results, organizes these procedures into specific research designs that provide the logic and procedures for conducting the study; and frames these procedures within theory and biblioscohy.	Creswell_Clark _mixed_meth ods	research in which the inquiter or investigator collects and analyzes data, integrates the findings, and draws inferences using both qualitative and quantitative approaches or methods in a single study or a program of study.	Lisa_M. _Given_SAGE								
MLOPS N	MLOps (machine learning operations) stands for the collection of techniques and	symeonidis_M										
model A	A function that takes features as input and predicts labels as output.	Al_Fairness_3 60	Machine Learning algorithms and data processing designed, developed, trained and implemented to achieve set outputs, inclusive of datasets used for said purposes unless otherwise stated.	FBPML_Wiki	A model is a formalised expression of a theory or the causal situation which is regarded as having generated observed data. Its statistical analysis the model is generally expressed in symbols, that is to say in a mathematical form, but diagrammatic models are also found. The word has recently become very popular and possibly somewhat over-worked.	OECD	A conceptual, mathematical, or physical representation of phenomenon observed in a system of ideas, events, or processes in computationally-based models used in Al. phenomenon are often abstracted for mathematical representation, which means that characteristics that can not be represented mathematically may not be captured in the model.	SP1270	A quantitative method, system or approach that applies statistical economic financial or mathematical theories, terchaptes, and assumptions to process input data into quantitative estimates. A model consists of three components an information input component, which delivers assumptions and data to the mode a processing component, which transforms inputs into estimates, and a reporting component, which transforms in terms of the state of the component of the transfer of the component of the standards of the component of the standards of the stan	Comptroller_C ffice		
	Model assertions are arbitrary functions over a model's input and output that indicate when errors may be occurring											
nodel card si b c F F C	indicate when errors may be occurring both clowments ecompanying trained machine learning models that provide benchmarked evaluation in a variety of conditions, such as across different cultural, demographic, or phenotyte groups (e.g., race, geographic location, see, Pitzpatrick skin type) and intersectional groups (e.g., age and race, or sex and Pitzpatrick skin type) and intersectional groups [e.g., age and race, or sex and Pitzpatrick skin type) that are relevant to the intended application domains. Pitzpatrick skin type intersection of the second control of the second of t	Model_Cards_ for_Model_Re porting										
model decay h	Model decay depicts that the performance of the model is degrading over time	Nayak,_Pragati										
model editing A	trained base model's behavior for only a small region of the domain, without	Mitchell,_Eric										
model extraction A	containing mosts person marker to outer imports on mercus, and the model. More precisely, and wherevaries model extraction attack, a good approximation of a sensitivity properties model better that better the extracted (to, learned) by a dishonest user who interacts with the arrest only side the query interface. The extraction of the extracted of the interact by the dishonest user who interacts with the arrest only side the query interface.	Chandrasekara n,_Varun									model inversion; model stealing	
model governance N	Model Governance is the name for the overall internal framework of a firm or organization that controls the processes for Model Development, Model Validation and Model Usuar assign responsibilities and roles etc.	open_risk_202 2	2									
model inventory ir		ORM_model_i nventory										
model overlay Ji	information that is in the by a firm or organization. Judgmental or qualitative adjustments to model inputs or outputs to compensate for model, data, or other known limitations. A model overlay is a type of override.	Comptroller_C										
model risk management a	y a min or optimization of continuous contin	Fed_Reserve										
model suite A	A group of models that work together.	Comptroller_C										
model training the	the phase in the data science development lifecycle where practitioners try to fit the best combination of weights and bias to a machine learning algorithm to minimize a loss function over the prediction range	C3. ai_Model_Trai ning	process to determine or to improve the parameters of a machine learning model, based on a machine learning algorithm, by using training data	aime_measure ment_2022, citing ISO/IEC 27989								
model validation ti	the set of processes and activities intended to verify that models are performing as expected.	yields. io_model_vali	the set of principles, practices and organizational arrangements supporting a rigorous (audited) model development and validation cycle.	Open_Risk_M anual_model_								
	Examination of the status of the activities of a supplier and of their results by the acquirer or a third party.			validation SP800-160								
moral agency T	The capacity for moral action, reasoning, judgment, and decision making, as	cab AI_Ethics_Mar k_Coeckelberg										
moral patiency T	The moral standing of an entity in the sense of how that entity should be treated.	h AI_Ethics_Mar k_Coeckelbers										
naive Bayes T b ir ir a	The naive Bayes classifler is a Bayesian learning method that has been found to be useful in many postical applications. It is called "naive" because it incorporates the simplifying assumption that attribute values are conditionally independent, given the classification of the instance. The naive Bayes classifler applies to learning tasks where each instance is described by a conjunction of attribute values and where the target function (b) can take on any value from some finite set V.	h Mitchell,_Tom										
natural language A processing v	A computer's attempt to "understand" spoken or written language. It must parse vocabulary, grammar, and intent, and allow for variation in language use. The process often involves machine learning.	Hutson, _Matthew	The ability of a machine to process, analyze, and mimic human language, either spoken or written. $ \\$	NSCAI								
neural network N	Neural networks Also known as artificial neural network, neural net, deep neural net; a computer system inspired by living brains.	Ranschaert, _Erik	A model that, taking inspiration from the brain, is composed of layers (at least one of which is hidden) consisting of simple connected units or neurons followed by nonlinearities									
ondiscrimination the	the practice of treating people, companies, countries, etc. in the same way as others in order to be fair:	Cambridge Dictionary	In the context of machine learning non-discrimination can be defined as follows: (I) people that are similar in terms non-protected characteristics should receive similar predictions, and (2) differences in predictions across groups of people can only be as large as justified by non-protected characteristics.	Žliobaitė_Indr ė	the elimination of all existing discriminatory conditions, whether purposeful or inadvertent.	FWS_062_FW _1	the practice of treating people, companies, countries, etc. in the same way as others in order to be fair	Cambridge_Di ctionary_non- discrimination				
normal flow T	The intended flow of a process originating from a start event, continuing through all defined activities, and concluding successfully to its defined end event.	IEEE_Guide_I										
normalization C d	Conceptual procedure in database design that removes redundancy in a complex database by crabibilities dependencies and relationships between database database by crabibilities dependencies and relationships between database and action of the complex database and action of the complex database database complex database complex database databas	OECD	The process of convertingan actual range of values into a standard range of values, typically—to +1 or 0 to 1	aime_measure ment_2022, citing Machine Learning Glossary by Google								
objective evidence d	data supporting the existence or verity of something (note: can be obtained through observation, measurement, test, or other means).	ISO/IEC_TS_ 5723:2022(en)		Ī								
observation a	a piece of information received online from users, sensors, or other knowledge sources	poole_mackwo rth_observatio	the careful, close examination of an object, process, or other phenomenon for the purpose of collecting data about it or drawing conclusions.	APA_observati on								
off-label use [v	[when] data published for one task are used for another[;] off-label usage could lead to bissed, overly optimistic results of machine-learning algorithms. The underlying cause is that public data are processed with hidden processing pipelines that alter the data features.	misuse_of_pu blic_data										
offline learning in	pipelines that after the data features. Implies a static dataset that [one] know[s] from the start and the parameters of [one's] machine learning algorithm are adjusted to the whole dataset at once often loading the whole dataset into memory or in batches.											

Terms	Definition 1	Citation 1 [1]		Citation 2		tation 3	Permanus 4	Citation 4	Definition 5 Citation 5	Related term and synonym [2]	ns definition
learning	fitting [one's] model incrementally as the data flows in (streaming data).	Ben_Auffarth_ 2021	-								
ogy	A set of concepts and categories in a subject area or knowledge domain that shows their properties and the relationships among them to enable interoperability among disparate edements and systems and specify interfaces to independent, knowledge-based services for the purpose of enabling certain kinds of surrounsed meaning.	IEEE_Guide_I PA									
ty	[to receive] the output of [an] algorithm (the classification decision) [and to not] have any concrete sense of how or why a particular classification has been arrived at from inputs.	Jenna_Burrell	A description of some deep learning systems [that] take an input and provide an output, but the calculations that occur in between are not easy for humans to interpret.	Hutson, _Matthew	The nature of some AI techniques whereby the inferential operations are complex, hidden, or otherwise opaque to their developers and end users in terms of providing an understanding of how classifications, recommendations, or actions are generated and what overall performance will be.	CAI	When AI system processes, functions, output or behavior are unavailable to all stakeholders – usually an antonym for transparency			black box; unexplainable	e
tionalization tor	Putting AI systems or related concepts into use so they can be measured. A role assumed by the person performing remote control or teleoperation, semi- autonomous operations, or other human-in-the-loop types of operations	SP1011	Individual or organization that performs the operations of a system.			800-160					
1	an individual makes an active affirmative indication of choice via a user interface signaling a desire to share their information with third parties.	IAPP_Privacy_ Glossary								privacy; consent; opt- out	-
at	an individual makes an active affirmative indication of choice via a user interface signaling a desire not to share their information with third parties.	IAPP_Privacy_	-							privacy;	
me	something that follows as a result or consequence	merriam_web ter outcome	s							consent, opc-	
r	An outlier is a data point that is far from other points.		N. An outlier is a data value that lies in the tall of the statistical distribution of a set of data values.	OECD	away from the actual values* Input data whose values are more than roughly 3 citi standard deviations from the meanOutliers often cause problems in model Lei training. Clipping is one way of managingoutliers Gk	ne_measure ent_2022 ing Machine arning ossary by ogle					
it	Data transmitted to an external destination	IEEE_Soft_Vo	Process by which an information processing system, or any of its parts, transfers data outside of that system or part	IEEE_Soft_Vo	Co	ogic					
ltting	In statistics and machine learning, overfitting occurs when a model tries to predict a trend in data that is too noisy. Overfitting is the result of an overly complex model with too many parameters. A model that is overfitted is inaccurate because the trend does not reflect the reality of the data. An	Ranschaert, _Erik	Given a hypothesis space H, a hypothesis h element of H is said to overfit the training data if there exists some alternative hypothesis h element of H, such that h has smaller error than h over the training examples, but h' has a smaller error than h over the entire distribution of instance.	Mitchell,_Tom							
	that it is trained with, instead of accurately predicting unseen data.										
age	a folder with all the code and metadata needed to train and serve a machine learning model. A learning model that summarizes data with a set of parameters of	about_ML_pa ckages Russell and 1									
men ic	A learning model that summarizes data with a set of parameters of fixed size (independent of the number of training examples) A process that may contain one or more sub-processes, activities, and tasks.	Russell_and_! orvig IEEE_Guide_I									
nt process y	A process that may contain one or more sub-processes, activities, and tasks. Bit(s) used to determine whether a block of data has been altered. Rationale: Term has been replaced by the term "parity bit".	PA	the quality or state of being equal or equivalent	Merriam-							
ipation	Term has been replaced by the term "parity bit". engag[ing] multiple stakeholders in deliberative processes in order to achieve	Sloane_et_al_		Webster_parit y							
cipant	A computer system, data, input, business rule, human intervention, and other	2020 IEEE_Guide_I	a living individual about whom an investigator (whether professional or student)	45_CFR_46_2						human subjec	ct
	contributor to the flow of a process.	PA	conducting research: (i) Obtains information or biospecimens through intervention or interaction with the individual, and uses, studies, or analyzes the information or biospecimens; or (ii) Obtains, uses, studies, analyzes, or generates identifiable private information or identifiable biospecimens.	018_Requirem							
ve learning agent	A passive learning agent has a fixed policy that determines its behavior. An active learning agent gets to decide what actions to take.	Russell_and_! orvig	N							active learnin	·g
	nutural presson (data subject); an identification presson is one who cashe bedientific directly or interesting reference to an intellentific such a foreign control of the presson of the		directly or indirectly, with a pirectical roomane or boundardh. Pressual information includes the a time of time flow of the delivening of the electricity, exister to, information includes the a time families (to delivening of the electricity, exister to, the control of the pirectical roomane or boundard), blinked, directly or indirectly, with a paircialar consumer or boundardh, blinked, forced or roomane, to be consumed the control of t								
	The general principles by which a government is guided in its management of public affairs, or the legislature in its measures. This term, as applied to a law, ordinance, or rule of law, denotes its general purpose or tendency considered as directed to the POLICY	law_policy_20 23	A policy defines the learning agent's way of behaving at a given time	sutton_reinfor cement_2018							
onality		Malik_2021	the researcher's starting points and standpoints before and during inquiry, as well as the conditions shaping the research situation, process, and product.							reflexivity	
oc explanation	also known in the reverse engineering approach (2) tries to reconstruct engineering approach (2) tries to reconstruct engineering made by a black-box (2)—, can be further disched into global and loci methods. (Dickle eliphantosius concern understanding the overall logic and behavior of all these box models, which also englanationing via form and the contraction of the con	Moradi_Samw aid		NISTIR_8312_ Full	Not-be explainability targets models that are not really inter-pertable by design by reserting offwere means to estimate their in-terpretable, such as a letter explanation, visual explanations, local expla-rations, explanations by enable, explanations by simplification and feature relevance explanations by enable, explanations by simplification and feature relevance explanations by indigification and feature relevance explanations techniques. Each of these techniques covers use of the most common ways humans explain systems and processes by themselves.	rredo_explai ble_2020					
processing	Typically performed with the help of a holdout dataset (data not used in the training of the model). Here, the learned model is treated as a black to sox and its predictions are altered by a function during the post-processing phase. The function is deduced from the performance of the black box model on the holdout dataset.		Performed after training by accessing a holdout set that was not involved during the training of the model, if the algorithm can only treat the learned model as the three objects of the second of the second three objects of the second three objects of the second o	Mehrabi, _Ninareh							
thm	A bias mitigation algorithm that is applied to predicted labels.	AI_Fairness_3 60									
tical significance	speaks to the magnitude of the relationship [between two variables] and whether or not that magnitude is important.	Mind_on_Stat stics	 a conceptual framework for evaluating discrimination cases developed primarily on statistical evidence that is the subject of increasing interest and discussion by some in the equal employment opportunity (EEO) field. 	DOL_Practica _Significance						statistical significance (often paired contrast to this); substantive significance	in
	or not that magnitude is important. A bias mitigation algorithm that is applied to training data.	AI_Fairness_3	some in the equal employment opportunity (EEO) field.	_significance							(often paired contrast to this); substantive

Term	ns Definition 1	Citation 1[1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms	Legal definition
precision	A metric for classification models. Precision identifies the frequency with which, model was correct when classifying the positive class.		closeness of agreement between indications or measuredquantity values obtained by replace measurements on the same or similaredgects under operated conditions	alme_measure ment_2022, citing ISO/IEC Guide 99	A metric for classification models. Precision identifies the frequency with which a model was correct when predicting the positive class. That is Precision = True Positive/True Positive = Table Positive/	aime_measure ment_2022, citing Machine Learning Glossary by Google	Closeness of agreement between independent text results obtained under prescribed conditions. It is generally dependent on analyte concentration, and prescribed conditions. It is generally dependent on analyte concentration, and projection is suasily operated in terms of impression and computed as a standard deviation of the exter crush. Sigher impressions have freezed by a large- control of the control	UNODC_Gloss ary_QA_GLP			[2]	applicable
prediction	Forecasting quantitative or qualitative outputs through function approximation, applied on input data or measurements.		primary output of an AI system when provided with input data or information	aime_measure ment_2022, citing ISO/IEC 22989								
predictive analysis	The organization of analyses of structured and unstructured data for inference and correlation that provides a useful predictive capability to new circumstances or data.	PA										
predictive analytics	Insights, reporting, and information answering the question, "What is likely to happen?" Predictive analytics support high confidence foretelling of future event (s).											
preprocessing	Transforming the data so that the underlying discrimination is mitigated. This method can be used if a modeling pipeline is allowed to modify the training data.		Techniques that try to transform the data so the underlying discrimination is removed. If the algorithm is allowed to modify the training data, then preprocessing can be used.	Mehrabi, _Ninareh								
prescriptive analytics	Insights, reporting, and information answering the question, "What should I do about it?" Prescriptive analytics determines information that provides high confidence actions necessary to recover from an event or fulfill a need.	IEEE_Guide_I PA										
privacy	freedom from intrusion into the private life or affairs of an individual	ISO/IEC_TS_ 5723 2022(en)	freedom from intrusion into the private lifeor affairs of an individual when that intrusion results from undue or illegalgathering and use of data about that individual	aime_measure ment_2022, citing ISO/IEC TR 24029-1								
privacy-by-design	Embedding privacy measures and privacy enhancing technologies directly into the design of information see hoologies and systems.			18 24025*1							data: protection-by- design (def. https://eur- lex.europa. eu/legal: content/EN/T XXZ2 uri-CELEX% 3A0201680679 = 201605048qid= 1532448883434	
privacy-enhancing technology	A coherent system of ICT (Information and Communications Technology) measures that protects privacy by eliminating or reducing personal data or by preventing unnecessary and/or undesired processing of personal data, all without losing the functionality of the information system.	PET_Handbook										
privileged protected attribute procedure	A value of a protected attribute indicating a group that has historically been at systematic advantage.	AI_Fairness_3 60										
process	activity, or test. A sequence or flow of activities in an organization with the objective of carrying out work, which may include a set of activities, events, tasks, and decisions in a sequenced flow that adhere to finite execution semantics. Process levels will generally follow structure at the capability maturity model integration (CMM)	cab IEEE_Guide_I PA	Set of interrelated or interacting activities that transforms inputs into outputs	IEEE_Soft_Vo								
process flow	The defined representation of the overall progression of how a process is	IEEE_Guide_I										
processing	Processing means any operation or set of operations which is performed on personal data or on sets of personal data, whether on not by automated means, such as collection, recording, organisation, structuring, storage, adaptation or alteration, retrivaci consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure or destruction.		*Processing* means any operation or set of operations that are performed on personal information or on sets of personal information, whether or not by automated means.	CCPA							personal data; processing	
processing environment	the combination of software and hardware on which the Application runs.	Law_Insider_j rocessing_env ronment										
processor	Processor means a natural or legal person, public authority, agency or other body which processes personal data on behalf of the controller.	GDPR	personal information or on sets of personal information, whether or not by automated means.	CCPA							personal data; processing controller	
product manager	a specialized product management professional whose job is to manage the planning, development, launch, and success of products/solutions powered by AI, machine learning, and deep learning technologies.	productmanag erHQ_Josh_Fe chter										
product owner	[person who is] focused on providing direction and prioritization for the cross- functional AI team, ensuring everyone remains focused on the overall vision and road map. This role is responsible for unifying individuals with diverse skills and backgrounds toward a common goal.	Forbes_Tracy _Kemp										
product velocity	how fast a product can be delivered to the market	Cost_Manage ment_ch15										
productization profiling	and to the constant	Towards_Prod uctizing		CCDA		cenc					personal data:	
protung	used in in reservoires. The real and automated processing of personal data consisting reduling finears any form of automated processing of personal data consisting reduced to the reduced certain personal aspects existing to an unitar person, in particular to analyse or predict aspects concerning that natural persons performance at work, comonina situation, health, personal preferences, interests, reliability, behaviour, location or movements.		"Profiling" means any form of automated processing of personal information, as further defined by regulations pursuant to paragraph (1) for subdivision (a) of Section 1798. BS, to evaluate certain personal spects relating to a natural person and in particular to analyze or prefet aspects concerning that natural persons performance at work, economic situation, health, personal preferences, interests reliability, behavior, location, or movements.	ССРА	Measuring the characteristics of expected activity so that changes to it can be more easily identified.	CSRC					processing	
protected attribute	attributes are not universal, but are application specific.	Al_Fairness_3 60										
protected class	[a feature] that may not be used as the basis for decisions [and] could be chosen because of legal mandates or because of organizational values. Some common protected [classes] include race, religion, national origin, gender, marital status, are, and socioeconomic status.	MIT_Protecte d_Attributes	A group of people with a common characteristic who are legally protected from [] discrimination on the basis of that characteristic. Protected classes are created by both federal and state law.	Practical_Law _protected_cl ass								
prototype provisioning	A prototype is an original model constructed to include all the technical characteristics and performances of the new product. The granting of access rights and executional privilege to an agent (human or machine) within an application(s) or system(s).	OECD IEEE_Guide_I										
proxy	A variable that can stand in for another, usually not directly observable or	SP1270										
proxy discrimination	a particularly persistons subset of dispurate impact. Lie all forms of dispurate impact, it involves a facility neutral practice that disproport controlly lumin members of a protected class. But a practice producing a dispurate impact only mounts to propsy discrimination when such conditions in the in particular, mounts to propsy discrimination when such conditional class the inparticular, but the produces a dispurate impact and in particular discrimination of the produces and the produces and the produces and the produces and the produces are dispurate impact. This condition can be met either when the discriminator intends to dispurately impact a protected group or when a legally-prohibited characteristics in particular either discriment of passing which are caused by consideration of the produces of the discriminator spain in vary after a caused to the consideration of the produces of the discrimination of the produces of th	Proxy_Discrimination							A surfale V is a count graph exhibits unrecolved discrimination of there exists a directed path from A to V that is not blocked by a resolving variable, and V itself is non-resolving.	Mehrabi, _Ninareh (this definiiton is quite technical though)	L	
pseudo-anonymization (pseudonymization)	the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person;		information in a manner that renders the personal information no longer attributable to a specific consumer without the use of additional information, provided that the additional information is kept separately and is subject to technical and organizational measures to ensure that the personal information is not attributed to an identified or identifiable consumer.		A data management technique to strip identiflers linking data to an individual.	NSCAI					personal data; processing	
pseudoscience	a system of theories, assumptions, and methods erroneously regarded as scientific	Merriam- Webster_pseu doscience										
quality	The totality of features and characteristics of a product or service that bear on it ability to satisfy stated or implied needs.	s OECD	«data» degree to which the characteristics of data satisfy stated and implied needs when used under specified conditions; «system» degree to which a set of inherent characteristics of an object fulfils requirements (an object can be a product, process or service)	ISO/IEC_TS_ 5723/2022(en)								
racialized	A socio-political process by which groups are ascribed a racial identity, whether or not members of the group self-identify as such	AAAS_AI_and _Bias_2022- 09										
	a type of machine learning that sorts data in a relevant order[; often used by companies] to optimize search and recommendations.	DEV_ranking	position, order, or standing within a group : RANK	Merriam- Webster_rank								

	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4 Ci	tation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
ason code	Response functions created by linear regression algorithms are probably the	Machine_Lear	logical and actionable [response] in the event credit is denied or other adverse	Comparing_se							[2] applicable
	Response functions created by linear regression algorithms are probably the most popular, accountable, and transparent class of machine learning models these models will be referred to her an linear and monotonic. They mode has the referred to her an linear and monotonic through the regression of th	ning_Interpret ability_with_H 20_Driverless _AI	legical and actionable frequency last event credit is desired on other adverse actions taken empedy directly from the native that generates the credit core it and correlyl the purpose of explaining to consumers why the consumer was denied credit.								
call	automatically and listed in plain English, they are typically called reason codes. A metric for classification models: identifies the frequency with which a model correctly classifies the true positive items.	NSCAI	A metric for classification modelshaf amovers the following question: Out of all metric for classification modelshaf amovers the following question: Out of all Recall * True Positive/True Positive * false Negative) assure of awareness and familiarity experienced when one excounters possible.	aime_measure ment_2022, citing Machine Learning Glossary by							
cognition		nition_and_M achine_Learni	events, or objects that have been encountered before or when one comes upon material that has been learned in the past.	on	to transfer prior learning or past experience to current consciousness: that is, to retrieve and reproduce information; to remember.	APA_recall					
commendation stem	A software tool and techniques that provide suggestion based on the customer's taste to discover new appropriate thing for them by filtering personalized information based on the user's preferences from a large volume of information	Das,_Debashis	A subclass of information filtering system that seek to predict 'rating' or 'preference' that a user would give to an item (such as music, books or movies) or social element (e.g. people or group) they had not vet considered, using a model built from the characteristics of an item (content based approaches) or the user's social environment (collaborative filtering approaches)	Sharma,_Lalit	a						
tification	An individual's right to have personal data about them corrected or amended by a business or other organization if it is inaccurate.										
d-lining	business or other organization is it is inaccurate. the creation and maintenance of technology practices that further entrench discriminatory practices against already marginalized groups.	Banking_on_Y our_Data_Chr istopher_Gillia									
d-team	A group of people authorized and organized to emulate a potential adversary's attack or exploitation capabilities against an enterprise security posture. He Red Team's objective is to improve enterprise cybersecurity by demonstrating the impacts of successful attacks and by demonstrating what works for the defenders (i.e., the Blue Team) in an operational environment. Also known as Cyber Red Team.	CSRC	a role-playing exercise in which a problem is examined from an adversary's or enemy's perspective.	Annie_Jacobs n_2015	The objective of red-teaming exercises is to 'obtain a realistic level of risk and vulnerabilities against your technology, people and physical/facilities' [BedTeam Security Consulting, 2018, p. 1]. [See note.]	Pamela_Goh_ 2021					
ference class	A class which is intended to describe structure and behavior of object identifiers. Its instances, called references, are passed by-value and indirectly represent objects by substituting for some primitive reference.	IGI_Global_ret erence_class									
eriexivity	A form of critical thinking that prompts us to consider the 'whys' and 'hows' of research, critically questioning the utility, ethics, and value of what, whom, and how we study	aart_Pownall	in quantative research, the self-referential quality of a study in which the researcher reflects on the assumptions behind the study and especially the influence of his or her own motives, history, and biases on its condi-	APA_reflexivit	y						positionality
regression	Regression is a process of predicting the value to a yes or no label provided it falls on a continuous spectrum of input values, subcategery of supervised learning.	Ranschaert, _Erik	influence of the other own months, blaces, and blaces on its conduct. Michros to the process of developing an empirical lides of-three manded to predict form the process of developing and the process of the other own of the process of the other own of the process of the other own of the process of the pr	Raynor	the prediction of an exact value using a given set of data	Saleh_Alkhalii _ML_in_Blot ch	G c				
einforcement learning	A type of machine learning in which the algorithm learns by acting toward an abstract goal, such as "earn a high video game score" or "manage a factory efficiently." During training, each effort is evaluated based on its contribution toward the goal.	Hutson, _Matthew	Algorithms, in which an agent decides what to do to perform the given task to maximize the given function.	Reznik,_Leon	A method of training algorithms to make suitable actions by maximizing rewarded behavior over the course of its actions.61 This type of learning can take place in simulated environments, such as game-playing, which reduces the need for real-world data.	NSCAI					
chalouity	actuatinty reer's to the concerns on the minute estimated value(s) to the subsequent estimated values.	OECD	ability of an item to perform as required, without failure, for a given time interval under given conditions. Note I to "systems-definition: The time interval duration can be expressed in units appropriate to the item concerned (e.g. calendar time, operating cycles, distancer un, etc.) and the units should always be clearly stated. Note 2 to -systems-definition: Given conditions include aspects that affect reliability usue has mode of operations, stress levels, environmental conditions.	ISO/IEC_TS_ 5723-2022(en)	property of consistentintended behaviour and results	aime_measur ment_2022, citing ISO/IEO 22989	2				
emediation	The process of treating data by cleaning, organizing, and migrating it to a sale and secure entronment for optimized usage is called data remediation. Generally inderstood, as a process involving deleting unnecessary or unused data. However, the actual process is very detailed and includes several steps, including replacing, updating, or modifying data along with cleaning it, organizing it, and getting rid of unnecessary data.	CPO_Magazin e_Amar_Kana garaj									
eproducibility	Closeness of the agreement between the results of measurements of the same measurand carried out under changed conditions of measurement.										
equirement	measurana curried out under enanged conditions of measurement, something essential to the existence or occurrence of something else : CONDITION	Merriam- Webster_requi rement									
esidual	Residuals are differences between the one-step-predicted output from the model and the measured output from the validation data set. Thus, residuals represent	MathWorks_R esidual									
esidual analysis	the portion of the validation data not explained by the model. a powerful [statistical] tool to detect the problems associated with the violation of the ANOVA [analysis of variance] assumptions.			MathWorks_B							
			According to the whiteness test criteria, a good model has the residual autocorrelation function inside the confidence interval of the corresponding estimates, indicating that the residuals are uncorrelated.								
esilience	The ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents. The ability of a system to adapt to and recover from adverse	NISTIR_8269_ Draft	According to the independence test criteria, a good model has residuals understand with past injustion. Bridence of constitution indicates that the model does not describe how part of the output relates to the corresponding input. -governance-ability to anticipate and adapt to resist, or quickly recover from a potentially disruptive event, whether natural or man-made; veysteen capability of a system to maintain its functions and structure in the face of internal and central change, may not doggarde gracefully when this is necessary	ISO/IEC_TS_ 5723/2022(en)	ability of a system to recover operational conditionquickly following an incident	aime_measure ment_2022, citing ISO/IEO 22989					
esponsible AI	An Al system that aligns development and behavior to goals and values. This includes developing and fielding Al technology in a manner that is consistent with democratic values.	NSCAI									
esult	The consequential outcome of completing a process.	IEEE_Guide_I PA									
etention limit	refers to the amount of information that is stored long-term, and can be measured in volume (the size of the total collected logs in bytes) and time (the number of months or years that logs are stored for).	Industrial_Net work_Security									
isk	number of months or years that logs are stored for). When considering the negative import of a potential event, risk is a function of 1) the negative import, or magnitude of harm, that would arise if the circumstance or event occurs and 2) the likelihood of occurrence (Adapted from CMB Clark A-1920/16), Negative impact or harm can be experienced by individuals, groups, communities, organizations, society, the environment, and the plainet.	_2011 NIST_AI_RMF _1.0	The risk to organizational operations (including mission, functions, image, reputation), organizational assets, individuals, other organizations, and the Nation due to the potential for unauthorized access, use, disclosure, disruption, modification, or destruction of information and/or a system.	Reznik,_Leon	A measure of the extent to which an entity is threatened by a potential circumstance or event, and typically a function of: (i) the adverse impacts that would arise if the circumstance or event occurs; and (ii) the likelihood of occurrence.	SP800-12	An uncertain event or condition that, if it occurs, has a positive or negative effect IE on a project's objectives	EE_Soft_Vo b	effect of uncertainty on objectives	ISO_IEC_3850 7	
isk control	mechanisms at the design, implementation, and evaluation stages (that can be taken) into consideration when developing responsible Af for organizations that includes security risks (eyber intrusion risks, privacy risks, and open source software risk), economic risks (e.g., jod displacement risks), and performance risks (e.g., risk of errors and bias and risk of black box, and risk of explainability).	nderstanding_ of_responsible _artificial_inte lligence_practi									
sk tiering	where columning the desired level of explanability, flight-risk models are worthy of deeper condiscration models with an electric vole of risk and/or models of deeper condiscration models with a column level of risk and/or models of deeper condiscration models with generalized prediscrations and the state of the length of	pwc_Model_R sk_Manageme nt_of_Al_and _ML_Systems									
sk tolerance	Risk tolerance refers to the organization's or Al actor's readiness to bear the risk in order to achieve its objectives. Risk tolerance can be influenced by legal or regulatory requirements.	NIST_AI_RMF _1.0									

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
robotic deskton											[2] applicable
robotic desktop automation (RDA)	The computer application that makes available to a human operator a suite of predefined activity choreography to complete the execution of processes, activities, transactions, and tasks in one or more unrelated software systems to deliver a result or service in the course of human-initiated or -managed workflow.	IEEE_Guide_I PA									
,	activity choreography to complete the autonomous execution of a combination of processes, activities, transactions, and tasks in one or more unrelated software systems to deliver a result or service with human exception management.	PA	Software to help in the automation of tasks, especially those that are tedious and repetitive.	NSCAI							
robust AI	An AI system that is resilient in real-world settings, such as an object-recognition application that is robust to significant changes in lighting. The phrase also refers to resilience when it comes to adversarial attacks on AI components.										
robustness			reliable performance under different conditions (e.g., unseen, noisy, or	NISTIR_8269_ Draft							
	The units of RMSE are the same as the units of the estimator.		5 a frequently used measure of the differences between values (sample or population values) predicted by a model or an estimator and the values observed								root-mean- square error (RMSE)
	the transformation of a number expressed in a particular base to a number with fewer digits.	Nick_Higham_ 1	In finite precision arithmetic f , the process by which] the result of an elementary arithmetic operation [that] does not generally lie in the underlying number system, F , must be mapped back into F .	Nick_Higham_ 2							
row	describes a single entity or observation and the columns describe properties about that entity or observation. The more rows you have, the more examples from the problem domain that you have.	Machine_Lear ning_Mastery _Jason_Brown	1								
safety	state in which human life, health, property, or the environment is endangered; [safety involves reducing both the probability of expected harms and the	ISO/IEC_TS_ 5723 2022(en)	freedom from risk which is not tolerable	aime_measure ment_2022, citinig ISO/IEC							
scalability		IEEE_Guide_I		TR 24029-1							
score		AI_Fairness_3									
screen out	Screen-out discrimination occurs when "a disability prevents a job applicant or	60	It to remove (someone or something that is not suitable for a particular purpose) from a group that is being examined; 2) to prevent (something harmful) from passing through	Merriam- Webster_scree							
security	employee from meeting—or lowers their performance on—a selection criterion, and the applicant or employee loses a job opportunity as a result." readstance to intentional, unauthorized act(s) designed to cause harm or damage to a system.	ISO/IEC_TS_ 5773/2027/oc.	passing through degree to which a product or system (3.38)protects information (3.20) and data (3.11) so that persons or other productsor systems have the degree of data access appropriate to their types and levels of authorization	n_out aime_measure ment 2022							
			(3.11) so that persons or other productsor systems have the degree of data access appropriate to their types and levelsof authorization	ment_2022, citing ISO/IEC TR 24029-1							
segmentation selective adherence	The process of identifying homogeneous subgroups within a data table. Decision-makers are more likely to follow advice (human or algorithmic-based) that matches stereotypical views of the decision subjects.	Raynor alon- barkat_human									
self-aware system	views of the decision subjects. A computing platform imbued with sufficient knowledge and analytic capability to make useful conclusions about its inputs, its own processing, and the use of its output so that it is capable of self-judgment and improvement consistent with its	_2023 IEEE_Guide_I PA									
self-diagnosis	purpose. Ability of a system to adequately take measurement information from sensors, which a the data and communicate the proposes and results to other decises.	SP1011									
self-healing system	A computing system able to perceive that it is not operating correctly and, without human intervention, make the necessary adjustments to restore itself to normalize.	IEEE_Guide_I PA									
semantic mapping		IEEE_Guide_I PA									
sensitivity analysis	A "what-If" type of analysis to determine the sensitivity of the outcomes to changes in parameters. If a small change in a parameter results in relatively large changes in the outcomes, the outcomes are said to be sensitive to that parameter.	OECD	Sensitivity analysis varies settings of a model's input parameters and assesses resulting changes in model outputs.	Raynor	Sensitivity analysis varies settings of a model's input parameters and assesses resulting changes in model outputs.	mills_study_2 010					
sensitive data	a specific set of 'special categories' that must be treated with extra security, including lindoration about; [leadal or ethnic origin; [political opinions; [r]] eligious or philosophical beliefs; [r]; ade union membership; [g]; enterite data; [d]starrelated to a person's sex life or sexual orientation; and [b]lometric data (where processed to uniquely identify someone).	IT_Governanc e_Blog_Luke_ Irwin									
sensory digitization	The conversion of typically analog or human sensory perception (e.g., vision, speech) to a digital format useful for machine-to-human interaction or machine processing of traditionally analog sensory information [e.g., optical character recognition (OCFR)]	IEEE_Guide_I PA									
service	performs a value-added transformation, and creates an output that fulfills the	IEEE_Guide_I PA									
signal detection theory	a framework for interpreting data from experiments in which accuracy is measured.	Signal_Detecti on_Theory									
shallow learning situational awareness	Techniques that separate the process of feature extraction from learning itself. Perception of elements in the system and/or environment and a comprehension of their meaning, which could include a projection of the future status of perceived elements and the uncertainty associated with that status.	Reznik,_Leon SP800-160									
snake oil	perceived elements and the uncertainty associated with that status. Something proposed as a solution to a problem, but which is of little real or practical value; speech or action which is superficially attractive or convincing but of no real substance or effectiveness.	OED_snake_o	4								
socio-technical system	but of no real substance or effectiveness. how humans interact with technology within the broader societal context	NIST SP1270	system that includes a combination of technical and human or natural elements	ISO/IEC_TS_ 5723:2022/am							
_	Activity in which a system or component is executed under specified conditions, the results are observed or recorded, and an evaluation is made of some aspect of the system or component.	IEEE_Soft_Vo		rastardád(CII)							
	refers to a matrix of numbers that includes many zeros or values that will not										
specification	significantly impact a calculation. A document that specifies, in a complete, precise, verifiable manner, the requirements, design, behavior, or other characteristics of a system or component and often the procedures for determining whether these provisions have been satisfied.	_sparsity SP800-37									
stakeholder	Individual or organization having a right, share, claim, or interest in a system or in its possession of characteristics that meet their needs and expectations. An individual, group, or organization who may affect, be affected by, or perceive itself to be affected by a decision, activity, or outcome of a project.	IEEE_Soft_Vo	any individual, group, or organization that can affect, be affected by, or perceive itself to be affected by a decision or activity	ISO/IEC_TS_ 5723:2022(en)							
standard deviation	The most widely used measure of dispersion of a frequency distribution introduced by K. Pearson (1893). It is equal to the positive square root of the variance. The standard deviation should not be confused with the root mean square deviation.	OECD									
	An activity, task, or input that describes or defines the beginning of a process.	PA									
	A systematic tendency for estimates or measurements to be above or below their true values. Statistical biases arise from systematic as opposed to random error. Statistical bias can occur in the absence of prejudice, partiality, or discriminatory intent.										
statistical parity	The independence between the protected attribute and the outcome of the decision rule	Besse, Philippe									
statistical significance	When the probability of obtaining a statistic of a given size due strictly to random sampling error, or chance, is less than the selected alpha level (or the probability of a type I error); also represents a rejection of the null hypothesis.	Statistics in I	Prefers to whether a relationship between two or more variables exists beyond a probability expected by chance	The_SAGE_En cyclopedia_of _Communicati on_Research_ Methods							
statistics	Numerical data relating to an aggregate of individuals; the science of collecting, analysing and interpreting such data	OECD									
stereotype	Definition 3b (figurative): A preconceived and oversimplified idea of the characteristics which typily a person, situation, etc.; an attitude based on such a preconception. Also, a person who appears to conform closely to the idea of a type.	OED_stereoty pe	a set of cognitive generalizations (e.g., beliefs, expectations) about the qualities and characteristics of the members of a group or social category. Secreotypes, other seggerates, of the control of the control of the control of the other seggerates, on gether earber than posithe, and resistant to revision even when perceivers encounter individuals with qualities that are not congruent with the stereotype.	APA_stereotyp e	Contemporary social psychology typically defines stereotypes as mental representations of a group and its members, and stereotyping as the cognitive activity of treating individual elements in terms of higher level categorial properties	Augoustinos_ Walker_1998					
stochastic	The adjective "stochastic" implies the presence of a random variable; e.g., stochastic variation is variation in which at least one of the elements is a variate and a stochastic process is one wherein the system incorporates an element of randomness as opposed to a deterministic system.	OECD	ш. высокура								

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal definition
straight-through	The successful execution of a service, process, or transaction performed entirely	IEEE_Guide_I									[2] applicable
processing (STP)	through traditional application platforms with predefined interfaces (i.e., application programming interfaces [APIs]).	PA									
	a fallacious argument which irrelevantly attacks a position that appears similar to but is actually different from, an opponent's position, and concludes that the opponent's real position has thereby been refuted.	y_Critical_Thi									
stress test	Type of performance efficiency testing conducted to evaluate a test item's behavior under conditions of loading above anticipated or specified capacity requirements, or of resource availability below minimum specified requirements	IEEE_Soft_Vo cab									
strong AI	Al that is capable of solving almost all tasks that humans can solve	Shevlin_et_al _2019	Al that is as smart and well-rounded as a human. Some say it's impossible. Current Al is weak, or narrow. It can play chess or drive but not both, and lacks common sense.	Hutson, _Matthew							artificial general intelligence (AGI)
		NIST_1500 IEEE_Guide_I									
	present and /or repeated within other parent processes			Reznik,_Leon	For a computer to process a set of data whose attributes have been divided into	Raynor	a general subset of machine learning in which data, like its associated labels, is	Saleh_Alkhalifa	a		
	A type of machine learning in which the algorithm compares its outputs with the correct outputs during training, in unsupervised learning, the algorithm merely looks for patterns in a set of data.	_Matthew	Algorithms, which develop a mathematical model from the input data and known desired outputs.		two groups and derive a relationship between the values of one and the values of the other. These two groups are sometimes called predictor and targets, respectively. In statistical terminology, they are called independent and dependent variables. Respectively. The learning is 'supervised because the distinction between the predictors and the target variables is chosen by the investigator or some other outside agency.	of	a general subset of machine learning in which data, like its associated labels, is used to train models that can learn or generalize from the data to make predictions, preferably with a high degree of certainty.	_ML_in_Biote ch			
support vector machines	A supervised machine learning model for data classification and regression analysis. One of the most used classifiers in machine learning. It optimizes the width of the gray between the points of generate contemples in feature processing.	Ranschaert, _Erik									
surveillance	A supervised markine learning model for data classification and regression analysis. One of the most used classifiers in matchine learning, for optimizes the width of the gap between the points of separate categories in feature space, an across one of establishing information informations are subsidior for administration, production, marketing, entertainment and lise enforcement, including information production, marketing, entertainment and lise enforcement, including information processed data for a vastery of purposes in a quest for greater efficiency, convenience or safety, its ethics and politica are inherently ambiguous, but at the use time surveillement is never neutral.	David_Lyon_2 007									
system	combination of interacting elements organized to achieve one or more stated purposes	ISO/IEC_TS_ 5723/2022(en)									
systemic bias	Systems blasser result from procedures and practices of particular institutions that operates in very which result in certain code groups being absurating of forward and others being disabsurating of devalued. This need not be the result of the contraction of the contraction of the contraction of the contraction catalog rules or norms.	D. Chandler and R. Munday A Dictionary of Media and Communication. Oxford University Press, Jan. 2011 publication Title: A Dictionary of Media and Communicatio									
system of systems	set of systems and system elements that interact to provide a unique capability that none of the constituent systems can accomplish on its own (note: can be necessary to facilitate interaction of the constituent systems in the system of systems)	n ISO/IEC_TS_ 5723/2022(en)									
talent acquisition		UMAE									
target	the process of tribding and acquiring sauses runnan unor for organizationian neets and to meet any bidor requirement. a method for solving a problem that an Al algorithm parses its training data to find. Once an algorithm finds its target function, that function can be used to product results (predictive analysis). The function can then be used to find output data related to inputs for real problems where, unlike training sets, outputs are not included.	TechTarget_ta rget_function									target variable, target value
task	nos incuners. The performance of a discrete activity with a defined start, stop, and outcome that cannot be broken down to a finer level of detail.	IEEE_Guide_I PA	Required, recommended, or permissible action, intended to contribute to the achievement of one or more outcomes of a process	IEEE_Soft_Vi cab	set of activities undertaken in order to achieve a specific goal	aime_measur ment_2022, citing ISO/IE TR 24030	re C				
taxonomy	Taxonomy refers to classification according to presumed natural relationships among types and their subtypes.	OECD				18 24030					
tech-washing	the practice of slapping a trendy, new label on legacy solutions.	Forbes_Kayva n_Alikhani									
	Security controls (i.e., safeguards or countermeasures) for an information system that are primarily implemented and executed by the information system through mechanisms contained in the hardware, software, or firmware components of the system.	NIST_SP_800 30_Rev_1									
	The belief that technology is always the solution	M. Broussard, Artificial Unintelligence How Computers Misunderstand the World. MIT Press, 2018.									techno- solutionism
techno-solutionism test	See technochauvinism. Technical operation to determine one or more characteristics of or to evaluate the performance of a given product, material, equipment, organism, physical phenomenon, process or service according to a specified procedure.	UNODC_Gloss ary_QA_GLP	any activity aimed at evaluating an attribute or capability of a program or system and deteermining that it meets its required results.	William_Hetz I	e (I) activity in which a system or component is executedunder specified conditions, the results are observed or recorded, and an evaluationis made of some aspect of the system or component; (2) to conduct anactivity as in (I), (3) so one or more test cases and procedures.	aime_measur ment_2022, citing ISO/IE 24765	re the process of executing a program with the intent of finding errors.	The_Art_of_S oftware_Testi ng			Test, Evaluation, Verification and Validation
	A framework for assessing, incorporating methods and metrics to determine that a technology or system satisfactorily meets its design specifications and requirements, and that it is sufficient for its intended use.										(1EVV)
third party	an entity that is involved in some way in an interaction that is primarily between two other entities. [Please see note, especially regarding NIST CSRC terms that we might incorporate into this definition.]	TechTarget_th ird_party									
three lines of defense	separates front line groups, which are generally accountable for business risks (the First Line), from other risk oversight and independent challenge groups (the Second Line) and assurance (the Third Line)	AIRS_Penn									
traceability	Ability to trace the history, application or location of an entity by means of recorded identification. ["Chain of custody" is a related term.] Alternatively, traceability is a property of the result of an enseumement of the value of a standard whereby it can be related with a stated uncertainty, to stated references, usually national or international standards, is, through an unbroken chain of comparisons. In this context, The standards referred to here are measurement standards rather than writher standards.	UNODC_Gloss ary_QA_GLP	A characteristic of an Al system enabling a person to understand the technology, development processes, and operational capabilities (e.g., with transparent and auditable methodologies along with documented data sources and design procedures).	NSCAI							
training data	measurement standards rather than written standards. A dataset from which a model is learned.	Al_Fairness_3 60	a sample from a population of possible examples, and the statistical similarities o each class extracted, or more precisely the significant differences between classes are found.	f Ripley,_Brian	samples for training used to fit a machine learningmodel	aime_measur ment_2022, citing ISO/IE	re C				
transaction	Enactment of a process represented by a set of coordinated activities carried out by multiple systems and/or participants in accordance with defined relationships. This coordination leads to an intentional, consistent, and verifiable result arcoss all participants.					22989					
transfer learning	A technique in machine learning in which an algorithm learns to perform one	Hutson, _Matthew									
transformer	A procedure that modifies a dataset.	AI_Fairness_3 60									
transparency	 -information- open, comprehensive, accessible, clear and understandable precentation of information; systems- property of a system or process to imply openness and accountability 	ISO/IEC_TS_ 5723-2022(en)	Understanding the working logic of the model.	NISTIR_8269 Draft	cognituation: property of an organization that appropriate activities and decisions are committened to reteast attacholders (15.13) in a comprehensiv accessible and understandable reasoner. Note 1 to entry; Inappropriate communication of activities and decisions can violate security, privacy or confiderability requirements.	iso_22989_20 e, 22	0 - osystem: property of a system that appropriate information about the system is made available to relevant satebolders (LSLT). Note: In centry, proprietate information for system superpresses; can include foot it in centry, proprietate formations for system superpress, procedures, measures, design goals, design choices and assumptions, data sources and labelling protocks. Note 2 to entry: happropriet elisciosure of some aspects of a system can violate security, privacy or confidentiality requirements.	iso_22989_20 22			
trojan horse	A computer program that appears to have a useful function, but also has a hidden and potentially malicious function that evades security mechanisms, sometimes by exploiting legitimate authorizations of a system entity that invokes the program.	Reznik,_Leon					жымаў, разыку зії соннясныяну гедіненень.				malware
true negative	outcome where the model correctly predicts the negative class.	google_dev_c assification- true-false- positive- negative									

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3 Cita	ation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms	definition
true positive	an outcome where the model correctly predicts the positive class.	google_dev_ci assification- true-false- positive- negative									[2]	applicable
trust	the system status in the mind of human beings based on their perception of and experience with the system; concerns the attitude that a person or technology will help achieve specific goals in a situation characterized by uncertainty and vulnerability.		degree to which a user or other stakeholder has confidence that a product or system will behave as intended	ment_2022, citing ISO/IEC TR 24029-1								
trustworthiness	The degree to which an information system (including the information technology components that are used to build the system) can be expected to preserve the confidentiality, integrity, and availability of the information being processed, stored, or transmitted by the system across the full range of threats and individually prizacy.	SP800-37	Worthy of being trusted to fulfill whatever critical requirements may be needed for a particular component, subsystem, system, network, application, mission, enterprise, or other entity.		ability to meet stakeholders' expectations in a verifiable way, an attribute that can be applied to services, products, technology, data and information as well as to organizations.	0/IEC_TS_ 23:20Z2(en)						
	privacy-enhanced, and fair with harmful bias managed.	_10	erthical principles useds as human digital; respect for human rights, and so on, and, for its social and technical factors that findness whether project will want to use the technology. The use of the term "trust" with regard to technologies is controversial.	k_Coeckelberg h	Trustworthy At has there components: (i) it should be lawful, ensuring cryptions of the components of	ropean_ethi _2019						
type I error	The null hypothesis H0 is rejected, even though it is [true]	berthold_guid e_2020	false positive rate	james_statistic al_2014								
type II error	The null hypothesis H0 is accepted, even though it is [false]		true positive rate	james_statistic								
uncertainty	Result of not having accurate or sufficient knowledge of a situation; state, even partial, of deficiency of information related to understanding or knowledge of an event, its consequence, or likelihood	IEEE_Soft_Vo										
underfitting	Underfitting occurs when a statistical model cannot adequately capture the underlying structure of the data.	Ranschaert, _Erik										
	inadequately represented. (See note.)	rrepresented	when members of discernible groups are not consistently present in representative bodies and among measures of well-being in numbers roughly proportionate to their numbers within the population.	Encyclopedia. com_underrep resentation								
unexplainable	impossibility of providing an explanation for certain decisions made by an intelligent system which is both 100% accurate and comprehensible.	Roman_V. _Yampolskiy_ Unexplainabilit									black box; opacity	
unstructured data	Data that does not have a predefined data model or is not organized in a predefined way											
unsupervised learning		Reznik,_Leon	Learning techniques that group instances without a pre-specified dependent attribute.	Kohavi,_Ron	Alearning startegy that consists in observing and analyzing different entities and determining that some of their subsets can be grouped into extrain classes, without any correctness test being performed on acquired knowledge through feethack from external knowledge sources. Note 1 to entry: Once a concept is formed, it is given a name that may be used in subsequent learning of other concepts.	_2382_1997						
usability	extent to which a system product or service can be used by specified users to allerize especified goals with efficiences, efficiency and staffaction in a function specified goals with efficiences, efficiency and staffaction in a constitution of the staff of the specified condition of the specified condition of the staff of the specified condition is desired, and such as the specified condition is the specified condition to efficient of the design knowledge, competencies, activities and design attributes that contribute to making the specified constitution of the specified conditions and design attributes that contribute to making the specified conditions and design attributes that contribute to making consideration of the specified conditions and design attributes that contribute to making consideration of the specified conditions and design attributes that contributes to making consideration and design attributes that contributes to making consideration and design attributes that the specified contributes are specified as a specified contributes and design attributes and the specified contributes and design attributes and the specified contributes are specified as a specified contributes and design attributes and the specified contributes are specified as a specified contributes and design attributes and design attributes are specified to the design knowledge and design attributes and design attributes are specified to the design knowledge and design attributes and design attributes and design attributes are specified to the design knowledge and design attributes are specified to the design and design attributes are specified as a specified a	ISO/IEC_TS_ 5723-2022(en)										
usability testing	refers to evaluating a product or service by testing it with representative users. Typically, during a test, participants will try to complete typical tasks while observers watch, listen and tasks notes. The goal is to identify any usability problems, collect qualitative and quantitative data and determine the participant's satisfaction with he product.	Usabilitygov										
user	individual or group that interacts with a system or benefits from a system during its utilization	IEEE_Soft_Vo	A person, organization, or other entity which requests access to and uses the resources of a computer system or network.	CSRC								
	the practice of the following principles, the active involvement of users for a clear understanding of user and task requirements, iterative design and evaluation, and a multi-disciplinary approach		Approach to system design and development that aims to make interactive systems more usable by focusing on the use of the system; applying human factors, ergonomics and usability knowledge and techniques.	IEEE_Soft_Vo cab								
validation	Confirmation by examination and provision of objective evidence that the particular requirements for a specific intended use are fulfilled.	UNODC_Gloss ary_QA_GLP	Confirmation, through the provision of objective evidence, that the requirements for a specific intended use or application have been fulfilled.	IEEE_Soft_Vo cab	provides objective evidence that the capability provided by the system compiles with stakeholder performance requirements, achieving its use in its intended operational environment; answers the question, 'is it the right solution to the problem?' [Consists of evaluating the operational effectiveness, operational suitability, sustainability, and survivability of the system or system elements under operational predicts consists of evaluating the consists of evaluating the operational effectiveness, operational suitability, sustainability, and survivability of the system or system elements under operational predicts of the consists of evaluating the consists of the	D_TEVV	A continuous monitoring of the process of compilation and of the results of this process.	OECD			Test and Evaluation, Verification, and Validation (TEVV)	
	process.	al_2017										
variable	A variable is a characteristic of a unit being observed that may assume more than one of a set of values to which a numerical measure or a category from a classification can be assigned.		Quantity or data item whose value can change	IEEE_Soft_Vo cab								
	Represents the statistical significance of each variable in the data in terms of its affect on the model.	ai_glossary										
variance	value. It reflects the dispersion of the empirical values around its mean.	OECD	A quantifiable deviation, departure, or divergence away from a known baseline or expected value	cab								
verifiable	can be checked for correctness by a person or tool	ISO/IEC_TS_ 5723/2022(en)	provides evidence that the system or system element performs its intended functions and meets all performance requirements listed in the system performance specification and functional and allocated baselines; answers the question, 'Did you build the system correctly?'	DOD_TEVV	the goal of designing. At systems that have strong, ideally provable, assurances of correctness with respect to mathematically specified requirements. See 202	ihia_et_al_ 22					Test and Evaluation, Verification and Validation (TEVV)	
washing	tenuous or non-existent.	TechTarget_lv y_Wigmore										
	many machine learning and natural language processing tasks A word	Bolukbasi_et_ al_Debiasing_ Word_Embede ings										

ID	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volume Issue	Parerio	Year	URL	Notes
	Title of article, chapter, or page Regulation (11) 2006/079 of the European Parliament and of the Council of 27 April 2018 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 56/46/EC (Centeral Data Potection Regulation).		, , , , , , , , , , , , , , , , , , , ,					
GDPR	regard to the processing or personal data and on the free movement of such data, and repealing Directive 50/40/10. (General Data Protection Regulation)						https://eur-lex.europa.eu/eli/reg/2016/679/ej	
CCPA Al_Incident_Database	California Consumer Privacy Act of 2018 What is an Al incident?	Al forther Breekers	Al Incident Database			2002	https://leginfo.legislature.ca.gov/faces/codes_displayText.shtml?division=3.8part=4.8lmsCode=CIV&title=1.81.5	
Al_Incident_Database Shubendhu_and_Vijay	What is an Al incident? Applicability of Artificial Intelligence in Different Fields of Life	Al Incident Database Shubbendu, Shukla S. and Jaiswal Vijay		1 1	28-35	2002	https://incidentdutahase.si/research/1-criteria https://www.iser.in/archives/viii/AMDExMoASMTU-odf	
								Laccess this book using a free Internet Archive account; it can be borrowed in I-hour stretches
	Glossary of Computer System Software Development Terminology	Rayner, William J., Jr.						This link also can be used: https://citeseerx.ist.psu.edu/viewdoc/download?doi-10.1.1375.8194
Raynor Al Fairness 360		Al Fairness 360	The International Dictionary of Artificial Intelligence Al Fairness 360			1999	https://archive.org/detaile/internationaldic0000sym https://aif360.mybluemic.net/resources#afossary	Reco-repliktype-pdl
Al_Fairness_360 Mitchell_Tom	Clossary Machine Learning	Mitchell, Tom	Machine Learning			1997	http://www.cs.cmu.edu/-tom/mibeok.html	
Brookings_Institution Brownlee lason	The Brookings glossary of Al and emerging technologies A Gentle Introduction to Generative Adversarial Networks (GANs)	Allen, John R. and Darrell M. West Removing Jason	Brookings Institution Machine Learning Mastery			2021	https://www.brookings.edu/blog/techtark/2020/07/13/the-brookings-glossary-of-si-and-emerging-technologies/ https://marbinelseminemastery.com/ubatssee-apprentise-adversarial-networks-atass/	
Pyle_and_San_losé	An executive's guide to machine learning	Pyle, Dorian and Cristina San José	McKinsey Quarterly			2005	https://machineleamingmastery.com/what-are-penerative-adversarial-networks-para/. https://www.mckimsey.com/industries/technology-media-and-telecommunications/our-insights/an-executives-guide-to-machine-learning	
Hutson,_Matthew FBPML Wiki	Al Glossary: Artificial intelligence, in so many words Definitions	Hutson, Matthew Foundation for Best Practices in Machine Learning	Science FROMI Wiki	357 6346	19	2:017	https://www.science.org/doi/10.1126/science 357.6346.19	
	Clossary of Privacy Terms	Polintiation for best Practices in stactime Learning	FDPML WILL				https://www.ropmuney.www/printenses	
Reznik_Leon	Introduction L5 Glossary of Basic Terms	Reznik, Leon	Intelligent Security Systems: How Artificial Intelligence, Machine Learning and Data Science Work for and Against Computer Security		xv-xxiv	2022		
IEEE_Guide_IPA	IEEE Guide for Terms and Concepts in Intelligent Process Automation		IEEE Guide for Terms and Concepts in Intelligent Process Automation			-,		
Russell_and_Norvig		Street Bussell and Deter Norvig	Artificial Intelligence: A Modern Approach (Fourth Edition)			2021		Definition 1 for "parametric" comes from section 26.7; the page number is missing from the ebook consulted, but the PDF page number is 1289 of 2579.
SP1270	Towards a Standard for Identifying and Managing Bias in Artificial Intelligence	Stuart Russell and Peter Norvig Schwartz, Reva; Apostol Vassilev; Kristen Greene; Lori Perine; Andrew Burt; Patrick Hall	NIST Special Publication 1270				https://roleubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.1270.pdf	The state of the s
SPIZ/O SPI0II	Towards a Standard for Identitying and Managing Bass in Artificial Intelligence Autonomy Levels for Unmanned Systems (ALFUS) Framework	Burt; Patrick Hall Autonomy Levels for Unmanned Systems Working Group Participants	NIST Special Publication 12/0 NIST Special Publication 1011			2008	https://relpubs.nist.gov/nestpubs/SpreasiFubscations/NISTSP_E00pdl https://seew.nist.gov/system/files/documents/el/isd/ds/NISTSP_1001-1-2-0.pdf	
Gartner	Cartner Clossary	Gartner Group	, , , , , , , , , , , , , , , , , , , ,				https://www.gartner.com/en/glossary/all-terms	
Varshney,_Kush	Trustworthy Machine Learning	Gartner Group Varshney, Kush R. Munir, Arslan, Erik Blasch, Jisu Kwon, Joonho Kong, and Alexander Aved						
Munir,_Arslan	Artificial Intelligence and Data Fusion at the Edge	Aved	IEEE ARE SYSTEMS MAGAZINE	36 7	62-78	2021	https://seexplore.ieee.org/stamp/stamp.iop/tp-&arnumber-9475883	
Wallace,_Brian	Introduction to Artificial Intelligence for Security Professionals	Aved Wallace, Brian; Sepehr Aldavan-Masouleh; Andrew Davis; Mike Wojnowicz; John H. Brock				2007	http://book.itep.ru/depository/Al/IntroductionToArtificialIntelligenceForSecurityProfessionals_Cylance.pdf	
NSCAI OECD	National Security Commission on Artificial Intelligence: The Final Report Glossary of Statistical Terms	National Security Commission on Artificial Intelligence Organisation for Economic Co-operation and Development	National Security Commission on Artificial Intelligence Final Report			2021	https://www.nscai.gov/2021-final-report/ https://ec.eurona.eu/eurostat/ramon/coded_files/OECD_vlossary_stat_terms.pdf / https://stats.oecd.orv/ylossary/	Appendix A: Technical Glossary begins on page 601 of the report (603 of the PDF itself).
OECD_CAl_recommendati								
on	Recommendation of the Council on Artificial Intelligence	OECD Tobassi Ethamikusia I Burne Mishaal Hadimishaal Anders D Melina	OECD Legal Instruments			2009	https://legalinstruments.occd.org/en/instruments/occd-legal-0440	Adopted on: 21/05/2019
	A Taxonomy and Terminology of Adversarial Machine Learning	Tabassi, Elham;Kevin J. Burns; Michael Hadjimichael; Andres D. Molina- Markham; Julian T. Sexton	Draft NISTIR 8269			2009	https://rolpubs.nist.gov/nistpubs/ir/2019/NISTJR.8269-draft.pdf	
SP800-37 IEEE Soft Vocab	Bisk Management Framework for Information Systems and Organizations: A System Life Cycle Approach for Security and Privacy Systems and software engineering —Vocabulary	Joint Task Force Interagency Working Group	NIST Special Publication 800-37 Revision 2 ISO/IEC/IEEE 24785	2 (revisi	on 2)	2068	https://mlgubs.nist.gov/nistpubs/SpecialPublications/NSTSP.800-37/2.pdf https://recessiore.icec.org/stamp/stamp.iso/to-Aumumber-900572	
Kohavi,_Ron	Systems and software engineering —Vocabulary Glossary of Terms: Special Issue on Applications of Machine Learning and the Knowledge Discovery Process	Kohavi, Ron; Foster Provost	SM/IR./ IEEE 24/05 Machine Learning McGraw-Hill Science/Engineering/Math	30	271-274	1998	https://www.cin.ufper.com/puter/scamp.pute	
Mitchell_Tom Cyber Guide	Machine Learning Cyber Security Planning Guide	Mitchell, Tom M. Federal Communications Commission	McGraw-Hill Science/Engineering/Math			1997	https://www.cin.ufpe.br/~comi/Machine/620-920Learning/620-920Tom/620Mitchell.pdf https://www.fcc.por/sites/default/files/cyberolanner.pdf	
CSRC CSRC	Cyber Security Planning Guide Information Technology Laboratory Computer Security Resource Center Glossary		NIST				https://esec.nist.gov/glossary	
AIMA	Artificial Inellisence: A Modern Approach	Russell, Stuart; Peter Norvig	Pearson			2000 1996	https://zon.cs.yale.edu/classes/cs470/materials/sima2000.pdf	
Breiman_Leo	Bagging Predictors	Breman, Leo Phillips, P. Jonathor, Carina A. Hahn: Peter C. Foreams: David A.	Machine Learning	24	123-140		https://link.springer.com/content/pdf/10.1007/BF00058655.pdf	
NISTIR_8312	Four Principles of Explainable Artificial 3 Intelligence	Phillips, P. Jonathor; Carina A. Hahn; Peter C. Fontana; David A. Broniatowski; Mark A. Przybocki	Draft NISTIR 8312			2020	https://relpubs.nist.eps/nistpubs/ir/2020/NIST.IR.8312-draft.pdf	Full Version Available at https://m/pubs.nist.gov/nistpubs/ir/2021/NIST IR 8392.pdf
SP800-12 Steinhardt,_Jacob	An Introductin to Information Security Certified Defenses for Data Poisoning Attacks	Nieles, Michael; Kelley Dempsey, Victoria Yan Pillitteri Steinhardt_Jacob; Pang Wei Koh; Percy Liang	NIST SP 800-42 31st Conference on Neural Information Processing Systems			2007	https://mleubs.nist.gov/nistpubs/SpecialPublications/NISTSP.800-12rl.pdf https://proceedings.neurips.cc/paper/2017/file/9d738ba/598be/5ed746755a32dcd11-Paper.pdf	
Ranschaert,_Erik	Artificial Intelligence in Medical Imaging: Opportunities, Applications and Risks	Ranschaert, Erik R.; Sergey Morozov; Paul R. Algra				2009	https://link.springer.com/content/pdf/10.1007/978-3-319-94878-2.pdf	
Blank_Abagayle_Lee Crawford. Kate	Computer Vision Machine Learning and Future-Oriented Ethics The Trouble with Bias	Blank, Abagayle Lee Crawford, Kate	Springer Seattle Pacific University Neural Information Processing Systems, Long Beach			2007	https://digitalcommons.sps.edu/cgi/viewcontent.cgi/article=1000kcontext=honorsprojects https://www.coutabe.com/wisteli/v=filvm_86WOak	
COE_AI_Glossary	Artificial Intelligence Glossary		Council of Europe			2007	https://www.coe.int/cn/web/artificial-intelligence/glossary	
Kuehn_Andreas	Analyzing Bug Bounty Programs: An Institutional Perspective on the Economics of Software Vulnerabilities	Kuehn, Andreas; Milton Mueller	2014 TPRC Conference Paper 3rd MLSys Conference			2064	https://papers.ssm.com/sol3/papers.cfm/abstract_id=248812	
Kang_Daniel MathWorks_Residual	Model Assertions for Monitoring and Improving ML Models What Is Residual Analysis?	Kang, Daniel; Deepti Raghavan; Peter Baili; Matei Zaharia	3rd MLSys Conference MathWorks			2020	https://arxiv.org/pdf/2003.01668.pdf https://avev.mathucorks.com/heip/ident/og/what-is-residual-analysis.html	
	Concept Drift and Model Decay Detection using Machine Learning Algorithm	Nayak, Pragati Aravind; Pavithra Sriganesh; Rakshitha K.M; Manoj Kumar M.V; Prashanth B.S; Sneha H.R	12th International Conference on Computing Communication and Networking Technologies (ICCCNT)			2021	https://secoplare.ieec.org/stamp/stamp.isp/tp=8amumber=9580110	
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		PricewaterhouseCoopers	Model Bisk Munagement of Al and Machine Learning Systems in Eur. TX., 64(p) Proceedings of the Self Hawaii International Conference on System Sciences. Hawaii International Conference on System Sciences (HICSS 2020), 20202- 01-07 - 2020-01-10, Mani, Hassaii, USA. Hassaii International Conference on System Sciences (HICSS)			2020	https://www.pwc.co.uk/data-analytics/documents/model-risk-management-of-ar-machine-learning-systems.pdf	risk bering" definition on page II
Toward_an_understanding			Sciences. Hawaii International Conference on System Sciences (HICSS 2020), 20202-					
Toward_an_understanding _of_responsible_artificial_ intelligence_practices Comparing_scores_and_re ason_codes			01-07 - 2020-01-10, Maui, Hawaii, USA. Hawaii International Conference on System			2020	https://enrints.whiterose.sc.uk/16279/8/Toward%20sn%20Understanding%20sf%20Responsible%20Artificial%20Intelligence%20Practices.pdf	"risk control" definition on page 4967
intelligence_practices	Toward an understanding of responsible artificial intelligence practices	Yichuan Wang, Mengran Xiong, and Hossein G. T. Olya	Sciences (HCSS) Companies come and conson codes in condit consint nutterns NeuroDecision us			2020		
ason_codes	Comparing scores and reason codes in credit scoring systems: NeuroDecision vs. unconstrained neural networks	Equifax	Comparing scores and reason codes in credit scoring systems: NeuroDecision vs. unconstrained neural networks			2020	https://assets.equifex.com/marketing/US/assets/comparing_scores_whitepaper.pdf	"reason code" definition on page 3
Machine_Learning_Interpr etability_with_H20_Driverl ess_Al								
etability_with_H20_Driverl	Machine Learning Interpretability with H20 Driverless Al	Patrick Hall, Navdeep Gill, Megan Kurka, and Wen Phan; edited by Angela Bartz	Machine Learning Interpretability with H20 Driverless AI			2022	https://docs.ht/o.ai/driverless-ai/latest-stable/docs/booklets/MLlBooklet.pdf	"reason code" definition on page 6
Pattern Recognition and								
Pattern_Recognition_and_ Machine_Learning	Introduction	Christopher M. Bishop United States Department of Defense's Test and Evaluation, Verification and Validation (TEVV) Working Group	Pattern Recognition and Machine Learning		1-66	2006		'recognition' definition on page 1 'trust' definition on page 5; 'automation' and 'autonomy' definitions on page 2; 'validation' and 'verification' definitions on page 15
DOD TEVV	Technology Investment Strategy 2015-2018	United States Department of Defense's Test and Evaluation, Variffication and Validation (TEVA) Working Course	Technology Investment Strategy 2005-2008			2005	https://defenseinensetsemarketplace.dtic.mil/wp-centent/aplanks/2018/02/OSD_ATEXV_STEAT_DIST_A_SGNED.pdf https://devenseinensetsemarketplace.dtic.mil/wp-centent/aplanks/2018/02/OSD_ATEXV_STEAT_DIST_A_SGNED.pdf https://devenseinels.com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/fundamentals_of_leftmarks_com/hooks/delition/hooks/delit	"trust" definition on page 15; "automation" and "autonomy" definitions on page 2; "validation" and
Fundamentals of Informat	Auditing, Testing, and Monitoring					2003		
ion_Systems_Security	Auditing, Testing, and Monitoring	David Kim and Michael G. Solomon	Fundamentals of Information Systems Security		216-250	2006	QAudit logs-Defined events-that-provide-additional-input-to-audit-activities/\$228eg-PA238erintsex-frontosser	"audit log" definition on page 233
								"audit log' elfmition on page 2233 "trustwortly, Af definition on page 2205, "bias" definition on page 203; 'data science' definition on page 205; 'deep learning' definition on page 206; 'deep learning' definition on page 204 and the page 206; 'deep learning' definition on page 204; 'deep learning' deep learning definition on page 204; 'deep learning' deep learning deep learni
								explainability' definition on page 204: 'explainable artificial intelligence (XAII' (as "Explainable")
AI_Ethics_Mark_Coeckelb ergh	On the second se	Mark Coeckelbergh	Al Ethics		202 225	2000	https://www.google.com/books/edition/Al_Ethics/Gs_XDwAAQBAl7hl-enkglpps-tkdq-%22Trustworthy-Al+Al+that+can+be+trusted+by+humane% 22Rost-PA2068orintsec-frontcover	Al") definition on page 204; 'artificial general intelligence (AGI)' definition on page 204 (as
ergh Hands-	Gossary				203-206	2020	28où-PAZHSprintser-frontcover	
On_Smart_Contract_Dev	Fundamental Concepts of Blockchaim	Matt Zand, Xun (Brian) Wu, and Mark Anthony Morris	Hands-On Smart Contract Development with Hyperledger Fabric V2					*application programming interface (API)* definition on page 17
TechTarget_target_function								"application programming interface (API)" definition on page I7 We could potentially find a more accurate definition for "arget"; this is specifically "target function" (so of this inclasion, the page was last updated June 2088). The author is just listed as TechTarget Contributor.
TechTarget_target_function	tarvet function	TechTarget	TechTarget			2008	https://www.techtarget.com/whatis/definition/target-function	function" (as of this inclusion, the page was last updated June 2008). The author is just listed as TechTariet Contributor.
n IGI_Global_reference_clas s CPO_Magazine_Amar_Kan								This entry cites the Encyclopedia of Information Science and Technology, Second Edition (8 Volumes) as (possibly?) where it is deriving this definition.
S COO Manual Control Name	What is Reference Class	IGI Global	IGI Global			- 1	https://www.igi-global.com/dictionary/reference-class/35564	Volumes) as (possibly?) where it is deriving this definition.
agaraj	Data Remediation and Its Role in Data Security and Privacy	CPO Magazine	CPO Magazine			2022	https://www.cpomagazine.com/data-protection/data-remediation-and-its-role-in-data-security-and-privacy/	February 1, 2022; the definition of "remediation"
DEV_ranking	Machine learning (ML) applications: ranking	DEV Community	DEV Community			2022	https://dev.to/mage_si/machine-learning-ml-applications-ranking-238d	Definition for "ranking" taken from here; last updated March 17, 2022 on date accessed.
productmanagerHQ_losh_								Peteruiary 1, 2002; the definition of *rementation* Definition for *ranking* taken from here; list updated March 17, 2022 on date accessed. Definition for *product manager* taken from here; list updated on December 22, 2021 on date accessed.
Peceter Discrimination	What Does an Al Product Manager Do? Down Discrimination in the two of twilinial latellineans and Bir Date	Product Manager HQ Anya E. R. Prince; Daniel Schwarcz	Product Manager HQ Iowa Law Review	105 3		2020	https://productmanagerhq.com/ar-product-manager/ https://llr.law.uiowa.edu/print/volume-05-issue-3/proxy-discrimination-in-the-age-of-artificial-intelligence-and-big-data	scccssed. 105 lows L. Rev. 1257 (2020)
Forbes Tracy Kemn	What Does and New Changer Dol. What Does and New Changer Dol. Four Skills Every Successful Al Product Owner Should Possess	Tracy Kemp	Forbes	200		2021		
record_conty_conty		,						Definition for "product country". August 24, 2022. See the note for definition of this text. The entry is in the nominal form (underrepresentation), but the (riccular) Merriam-Webster definition is in the adjectival form: I am using the Merriam-Webster definition because the CED as of yet does not have an entry for this term. The CED has quotations from the late 800% for 'under-representation', but no discussion of the term beyond those citations.
								but the (circular) Merriam-Webster definition is in the adjectival form. I am using the Merriam-
Merriam-								webster definition because the OED as of yet does not have an entry for this term. The OED has quotations from the late 1800s for "under-represent" and "under-representation" but no
Merriam - Webster_underrepresented	underrepresented	Merriam-Webster	Merriam-Webster Dictionary				https://www.merrium-webster.com/dictionary/underrepresented	discussion of the term beyond those citations.
HBR_Andrew_Burt_how_t	underrepresented How to Ensure Your Al Doesn't Discriminate	Andrew Burt	Harvard Business Review					August 28, 2020
o_ensure	now to Laguer road of DOSH CONCERNING	remove soils	THE VALUE AND ADDRESS REFEREN				TABLE / THE DOLL AND ADDRESS OF THE PROPERTY O	No date provided. This citation is being used because it cites verbatim an FFOC definition for
								No date provided. This citation is being used because it cites verbatim an EEOC definition for "adverse impact ratio," but that EEOC source does not seem readily locatable. As a result, has highlighted in light yellow definition if nor "adverse impact ratio" because we will need to work to find this original EEOC source. This Culterat report is fine for now, but it should not stand as the final citation for this definition; the original EEOC one source.
								highlighted in light yellow definition I for "adverse impact ratio" because we will need to work to
Cadient_EEOC	Understanding and Avoiding Adverse Impact in Employment Practices	Michael Baysinger; Kristin Worrell	Cadient				https://cadienttalent.com/resources/understanding-and-avoiding-adverse-impact	final citation for this definition; the original EEOC one should.
								Added citation Ben_Green_Yiling_Cher; added the following note: Definition 1 for 'algorithm-
								Added citation Ben, Green, Yäing, Cher, added the following note: Definition 1 for 'algorithm- in-the-loop' is taken from the wording from the abstract, with everything after the first ellipsis being taken from paragraphs 2, and everything after the second ellipsis being taken from
	Algorithm-in-the-Loop Decision Making	Ben Green; Yiling Chen	The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20)			1	https://ois.aasi.org/index.php/AAAI/article/view/7tl5	paragraph 3.
IT_Governance_Blog_Luke	Personal data vs Sensitive Data: What's the Difference?	Luke Irwin	IT Governance Blog				https://www.itsovernance.co.uk/blos/the-sdor-do-you-know-the-difference-between-personal-data-and-sensitive-data	
OED_stereotype	Personal data vs Sensitive Data: What's the Difference? Stereotype	Oxford English Dictionary	Oxford English Dictionary			t t	https://www-ned-com.proxypwwrlc.org/view/Fntry/1899567rskey-ImZ8YF8rrsult-1#eid	Definition 3b.
Machine_Learning_Master	Machine Learning Terminology from Statistics and Computer Science	Ison Brownice				2006	https://machinelearningmastery.com/data-terminology-in-machine-learning/#~text-flow%34%204%20row%20describes%20a.problem%20domain%	
		Jason Browniec	Machine Learning Mastery December Testimony and Statement for the Broad of Christopher Cillians BhD			2006 2	Sthat %20 you # 20 have.	Originally published March 9, 2016, but updated on August 8, 2019.
Banking_on_Your_Data C	Prepared Testimony and Statement for the Record of Christopher Gilliard, PhD. Hearing on "Banking on Your Data: the Role of Big Data in Financial Services" before the House Financial Services Committee Task Force on Financial Technology		Prepared Testiming Mastery Prepared Testimony and Statement for the Record of Christopher Gilliard, PhD. Hearing on "Banking on Your Data: the Role of Big Data in Financial Services' before the House Financial Services Committee Task Force on Financial Technology					See also https://www.congress.gov/event/lifith-congress/house-event/lifi251 for details.
		Christopher Gilliard	the House Financial Services Committee Task Force on Financial Technology				https://www.congress.gov/116/meeting/house/110251/witnesses/HHRG-116-RA00-Wstate-GillardC-20191121.pdf	about the hearing.
Merriam- Webster_pseudoscience	pseudoscience	Merriam-Webster	Merriam-Webster Dictionary				https://www.merriam-webster.com/dictionary/nseudoscience	
							https://www.google.com/books/edition/Cost_Management/HbQcEAAAOBAI/bl-en8abos-3kdo-56	
Cost Manager Act	Lean Accounting and Productivity Measurement	Don R. Hansen: Maryanne M. Mowen: Dan L. Heitrer	Cost Management			2021	nume_rww.merram=wesser.com_gaconum_ypenomecume_ thus://www.porram=wesser.com_gaconum_ypenomecume_ thus://www.porram=wesser.com_gaconum_ypenomecume_ thus://www.porram=wesser.com_gaconum_ypenomecume_ 22/delect/shact-to-dows/th-bow-fast-a-product-com-the-delectrod-to-thus-market-and-quality-is-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-to-consoner\$22,80m-y\NX8.signities-features-for-concerned-with-proxiding-a-nondefective-product- with-the-delected-features-feature	Definition 1 for "product velocity" appears on page 783 in the "Big Data" explanation box
						antil)	THE CONTROL OF THE CONTROL OF THE SAME PARTICIPATE OF THE CONTROL	Definition 1 for "productivation" appears in the first passwork of the popular or "part 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Towards_Productizing	Towards Productizing Al/ML Models: An Industry Perspective from Data Scientists	Filippo Lanubile, Fabio Calefato, Luigi Quaranta, Maddalena Amoruso, Fabio Fumarola, and Michele Filannino	arXiv				https://arxiv.org/abs/2103.10548	Definition 1 for 'product velocity' appears on page 'RS in the 'Big Data' explanation box Definition 1 for 'productization' appears in the first paragraph of the paper as 'productizing', I have changed around the grammar a bit in the definition within the brackets.
The_Art_of_Software_Tes	The Brancholom and Economics of Decemen Testing	Glenford I Murra	The Art of Software Testing			1979		Definition 1 for "test" on page 5.
William Hetani	Towards Productizing Al/ML Models: An Industry Perspective from Data Scientists The Psychology and Economics of Program Testing An Introduction	Glenford J. Myers William C. Hetzel	The Art of Software Testing The Complete Guide to Software Testing, 2nd edition				https://archive.org/details/artofsoftwaretes0000myer/page/4/mode/2up https://archive.org/details/complete;puidetos0000hrts/page/6/mode/2up?view=theater	Definition 1 for "test" on page 5. Definition 2 for "test" on page 6.
On Hyperparameter Own								and the state of t
On_Hyperparameter_Opti mization	On Hyperparameter Optimization of Machine Learning Algorithms: Theory and Practice	Li Yang and Abdallah Shami	arKiv				https://amis.org/pdf/200715745.pdf	
	Security Analysis of Subject Access Request Procedures: How to Authenticate Data Subjects Safely When They Request for Their		Drivery Turkenhades and Balin Oth Annual Drivery Forest ABC 2000 Process As a				https://www.google.com/books/edition/Privacy_Technologies_and_Policy/SW2cDwAAQBA7hi-en8ghpv-18dq-%	
ect_Access	Data	Cristiana Santos	Privacy Technologies and Policy (7th Annual Privacy Forum, APF 2029, Rome, Italy, June 13-14, 2019, Proceedings)			2009	22i-Impersonation+data+breach+A+malicious+individual+is+able+to+impersonate+a+legitimate+data+subject+to+the+data+controller% 228ags-PAI868printsec-frontower	Definition 1 for "impersonation" on page 196
IEEE_Caught_in_the_Act	Caught in the Act of an Insider Attack: Detection and Assessment of Insider Threat	Philip A. Legg, Oliver Buckley, Michael Goldsmith, and Sadie Creese	2015 IEEE International Symposium on Technologies for Homeland Security (HST					
						1	https://reader.elsevier.com/reader/ad/pii/S09574174003073022	Definition 1 for "note" nature. Cases from the assertact of this article. Definition 1 for "post-hoc explanation" appears at the bottom of page 2 and continues into page 3. (In a very strict sense, the first sentence should be sufficient.) The paragraph is reproduced in full in the note for the term's definition.
Moradi_Samwald	Post-hoc explanation of black-box classifiers using confident itemsets	Milad Moradi; Matthias Samwald	Expert Systems with Applications	165		2021	token=858E09A32B57ZFCF88N090AF808943768A26AFEISFR020820T6BD22F82449CE4284I047FD99C5IA01659C2ECE9895koriginRegion=us=cast= IkoriginCreation=202209890335#0035	 um a very surset sense, the tirst sentence should be sufficient.) The paragraph is reproduced in full in the note for the term's definition.
							assingur-various extraorrange com/hooks/edition/Mind.on. Statistics/npOMEAAAORAPH-eoskyber-Midq-Mi 2Ppractical/Versus-Statistical-Samifo-unos-Statistical-significance-does-not recessarily-mous-that-the-relationship-between-the-two-variables-high-	
Mind_on_Statistics	Chapter 4	Jessica M. Utts and Robert F. Heckard	Mind on Statistics (6th Edition)			2021	practical-significance 9/22 Regul PA1988 prints per-front coper	Definition 1 for "practical significance" is on page 138.
Mind_on_Statistics Jenna Burrell	Chapter 4 How the machine 'thinks'. Understanding opacity in machine learning algorithms	Jessica M. Utbs and Robert F. Heckard Jenna Burrell	Mind on Statistics (6th Edition) Big Data & Society		1-12	2001	nttns://journals.sus/coub.com/doi/pdf/10.1177/205395175622512	recommon cost bractera) sillumentes, is on halfe 12g
			-g				httus://journals.sesteenh.com/doi/edf/10.177/205395175592512 https://www.google.com/books/edition/Critical_Thinking_Concise_Edition/k0isCyAAQ8AT/hl-en&gbyv-Bidg-%	
Hughes_Lavery_Critical_T hinking			L.,,				7227724 straw man + a + full actions + argument + which tirrelevantly + attacks + a + position + that + appears + similar + to + but + is + actually + different + from + an + opponent +	L
_		William Hughes and Jonathan Lavery	Critical Thinking - Concise Edition			2005	SECNSUSDR*-position+and*-concludes+that+the+opponent%E2NSDN90s+real+position+has+thereby-bern+refuted%228pg-PA27l8printsec-frontcover	Definition 1 on page 271 Definition 1 for "technical control" appears on page Page B-13 of Appendix B (63 of 95 of the PDF
	NIST Special Publication 800-30 Revision 1: Guide for Conducting Risk Assessments	NIST	NIST Special Publication 800-30 Revision E Guide for Conducting Risk Assessments			2002	https://mlpubs.nist.gov/nistpubs/Legacy/SP/nistspecialpublication800-30rl.pdf	itself).
NIST_SP_800-30_Rev_1			TechTarget Glossary			2064	https://www.techtanget.com/whatis/definition/third-party	
TechTarget_third_party	third party	TechTarget	recinal green constant					
NIST_SP_800-30_Rev_1 TechTarget_third_party Law_Insider_processing_e			Telliage Gossay					
TechTarget_third_party Law_Insider_processing_e minorment	Processing Environment	Insider Law				ı	https://www.lawinsider.com/dictionary/processing-environment	
TechTarget_third_party Law_Insider_processing_e minorment		Insider Law	Harvard Journal of Law and Technology	31 2		ı		

	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)			Year	TIM.	
		Mills, Kevin L, James J Filliben, Dong Yeon Cho, Edward Schwartz, and		TOURSE IN	 a ago(a)			Notes: This definitions cites reference [94] in that paper, which is: [94] Law, A. and Kelton, W. D. (2000) Simulation Modeling and Analysis, 3rd edition, McCraw Hill,
mills_study_2010	Proposed Internet Congestion Control Mechanisms.	Daniel Genin.	NIST SP 500-282.		337-407		https://doi.org/10.6028/NIST.SP.500-282	Simulation Modeling and Analysis, 3rd edition,McGraw Hill,
friedman_additive_2000	Additive logistic regression: a statistical view of boosting (With discussion and a rejoinder by the authors)	Friedman, Jerome, Trevor Hastie, and Robert Tibshirani.	The Annals of Statistics	28 2	337-407	2000	https://doi.org/10.1214/aos/1008218223	
kusner_counterfactual_201 7	Counterfactual Fairness	Kusner, Matt J, Joshua Loftus, Chris Russell, and Ricardo Silva.	Advances in Neural Information Processing Systems (NIPS)			2017	https://proceedings.neurips.cc/paper/2017/hash/a486cd07e4ac3d27057f622f4f386ec5-Abstract.html	Abstract is intuitive Definition 1. Definition 2 is the formal definition provided in Section 3
	Construct Validity in Psychological Tests.	Cronbach, Lee J., and Paul E. Mechl.	Psychological Bulletin	52	281-302	1955	https://doi.org/10.1037/h0040957	Cronbach, Lee J., and Paul E. Meehl, "Construct Validity in Psychological Tests," Psychological, Bulletin 52 (1955): 281–302. https://doi.org/10.1037/h0040952.
		Fink A.	International Encyclopedia of Education (Third Edition)				https://doi.org/10.1016/1978-0-08-044894-7.00296-7	Glossary has definitions that are used
bordens_research_2010	Survey Research Methods Research Design and Methods: A Process Approach NIST/SEMATECH e-Handbook of Statistical Methods	Kenneth S. Bordens, Bruce B. Abbott	Book (Eighth Edition)			2001	https://www.amazon.com/Research-Design-Methods-Process-Approach/dp/R008BLHYQ8	This is a book and may not be an ideal source
nist_statistics_2012	NIST/SEMATECH e-Handbook of Statistical Methods						https://doi.org/10.18434/M32189	This is an online site. Definition for Experimental Design is in Section 5.11
symeonidis_MLOps_2022	MLOps - Definitions, Tools and Challenges	George A. Papakostas	In 2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC)		453-460	2022	https://seesolore.inen.org/document/920902	This cites the book 'Begining MLOps with ML Flow': https://link.springer.com/book/10, 1007/978-1-4842-6540-0
hardt_equality_2016	Equality of Opportunity in Supervised Learning	Hardt, Moritz, Eric Price, and Nati and Srebro	Advances in Neural Information Processing Systems (NIPS) Questions and Answers to Clarify and Provide a Common Interpretation of the Uniform Guidelines on Employee Selection Procedures		3315-3323	2006	http://papers.nips.cc/paper/8374-equality-of-opportunity-in-supervised-learning.pdf	
EEOC_Q&A_Employee_Sel	Questions and Answers to Clarify and Provide a Common Interpretation of the Uniform Guidelines on Employee Selection Procedures	Equal Employment Opportunity Commission	Questions and Answers to Clarify and Provide a Common Interpretation of the				https://www.eeoc.gov/laws/midance/questions-and-answers-clarify-and-provide-common-interpretation-uniform-midelines	Definition for "four-fifths rule" appears in section II for the answer to Q. II "What is a substantially different rate of selection?"
Engineering_safety_in_ma	POLICIA							ALCOHOLOGY SERVICE LANC OF MARCIANT
Engineering_safety_in_ma chine_learning	Engineering safety in machine learning	Kush R. Varshney	Information Theory and Applications Workshop (ITA), 2016			2006	https://iroexplare-iroe-arg.praxypwarle.org/document/388895	
DOD_Modeling_and_Simul ation_Glossary	raginevering sasety in macrime nearming DoD Modeling and Simulation (M&S) Glossary	United States Department of Defense	DoD Modeling and Simulation (M&S) Glossary			1998	https://web.archive.org/web/2007070004756/http://www.dtic.mil/whs/directives/corres/pdf/500050m.pdf	Definition for "human-in-the-loop" appears on page 124 (P2.8.15)
		Unined States Department of Deterior Mangaret Mitchell, Simone Wu, Andrew Zaldivar, Parker Barnes, Lucy Vasserman, Ben Hutchinson, Elena Spitzer, Inioluwa Deborah Raji, Timnit Gebru						
Model_Cards_for_Model_ Reporting	Model Cards for Model Reporting	Vasserman, Ben Hutchinson, Elena Spitzer, Inioluwa Deborah Raji, Timnit Gebru	arXiv				https://arxiv.org/abs/1810.03993	[Submitted on 5 Oct 2018 (vI), last revised 14 Jan 2019 (this version, v2)]
David_Leslie_Morgan_Brig	Explaining Decisions Made with AI: A Workhook (Use Case I: Al-Assisted Recruitment Tool)		Explaining Decisions Made with Al: A Workhook (Use Case 1: Al-Assisted Recruitment			2021	https://ansis.org/ftp/ansis/pagers/2104/290403906.pdf	
		David Leslie; Morgan Briggs	Tool)				https://arxiv.org/ftp/smin/papers/2104/2040006.pdf	Definition for "automation bias" is on page 18 The definition for "deen learning" is taken from the bettom of mase 1 and the very top of page 2.
deeplearningbook_intro		lan Goodfellow, Yoshua Bengio; Aaron Courville	Deep Learning			2006	https://www.deeplearningbook.org/contents/intro.html	The definition for "deep learning" is taken from the bottom of page 1 and the very top of page 2, slightly restructured to fit the conventions of a definition.
privacy-	Chapter 5: Privacy-enhancing technologies (PETs)	LW Information Commissionards Office	DRAFT Anonymisation, pseudonymisation and privacy enhancing technologies,			2022	https://ico.org.uk/media/about-the-ico/consultations/4021464/chapter-5-anonymisation-pets.pdf	The definition for "differential privacy" appears on page 30. This document, as accessed on October 27, 2022, was last updated on September 7, 2022.
Joseph_Rocca_Ensemble_	Chapter 3: Privacy-channeling sections general features	CK IIIO IIIIIAGI COIIIIIAAAN FOILCE	<u></u>			LULL		
methods	Ensemble methods: bagging, boosting and stacking	Joseph Rocca	Towards Data Science			2009	https://towardsdatascience.com/essemble-methods-bagging-boosting-and-stacking-c9214a10s205	Date of publication: April 22, 2019
google_dev_classification- true-false-positive-negative	e Classification: True vs. False and Positive vs. Negative	Google	Google Machine Learning Education Foundational Courses				https://developers.goode.com/machine-learning/crash-course/classification/true-false-nositive-negative	
							https://www.google.com/books/edition/Public_Health_and_Informatics/8IA2EAAAQBA77N-en8gbpv-18dq-%	
Public_Health_and_Inform atics MIE 2021	A Preliminary Scoping Study of Federated Learning for the Internet of Medical Things	Arshad Farhad; Sandra I. Woolley; Peter Andras	Public Health and Informatics: Proceedings of MIE 2021		504-505	2021	22Federated+training+t-2-is-a relearning-model which addresses the problem of data-governance and privacy-by-training-algorithms-collaboratively without-transferring-the-data-to-another-location/328nr-PA5048nrintsec-frontcover	Definition for "federated learning" appears on page 504
atics_MIE_2021 Black's_Law_Dictionary_h arm		The Law Dictionary / Black's Law Dictionary Second Edition	The Law Dictionary / Black's Law Dictionary Second Edition				https://thelawdictionary.org/harm/	
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misuse_of_public_data	Implicit data crimes: Machine learning bias arising from misuse of public data	Efrat Shimron; Jonathan I. Tamir; Ke Wang; Michael Lustig	PNAS	119 13		2022	https://www.geas.org/doi/full/f0.073/peas.207200392 https://www.geas.org/doi/full/f0.073/peas.207200392 https://www.fore.mit.edu/courses/res-es-001-exploring-farness-in-machine-learning-for-international-development-spring-2020/pages/module-three-framework/geneticed-astropass-f	Published March 21, 2022
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MIT_Protected_Attributes Practical_Law_protected_ class	Proceed Class	Thomson Reuters Practical Law	Thomson Reuters Practical Law				https://content.next-westlaw.com/practical-law/document/libb0x3tdaef05lie28578f/ccc38debee/Protected-Class2 viewType-FullText8transitionType-Default8contextData-isc.Default8firstPare-true0tox.	
Date Salvator coordi	Protected cases Hose Searcity Adds Limph to Al Inference	I moment Reuters Practical Law Dave Salvator	Thomson Reuters Practical Law NVIDIA Blogs			2020	yare cype-run excuramation type-Debutticentext lata-us. Debutticnst Page-Trucklaw. https://bloomidia.com/bloot/2020/05/14/constitu-ai-inference/	Published May 14, 2020
saurabh_label_2020	Now Sparsity Adds Umph to Al Inference A Unified View of Label Shift Estimation	Dave Salvator Gang, Saurabh, Yifan Wu, Sivaraman Balakrishnan, and Zachary Lipton	Advances in Neural Information Processing Systems			2020	https://injens.nidia.com/phor/2005/14/Appairs/ju-i-inference/_ https://injens.nidia.com/phor/2005/14/Appairs/ju-i-inference/_ https://proceedings.neurigs.cc/paper/2007/nash/289c05249240083188adh83667ed6-Abstract.html	Not Necessarily the original source of label shift but provides the definition
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	A Taxonomy and Terminology of Adversarial Machine Learning	Markham, and Julian Sexton.	NIST Internal or Interagency Report (NISTIR) 8269 (Draft)				https://doi.org/10.6028/NISTJR-8289-draft	
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sime_messruement_2022 saarela_festure_2021		NIST AIME Team Mirks Saarels and Susanne Jauhiainen	Unpublished Manuscript				None: https://link.springer.com/article/10.1007/s42452-021-04448-9	Cites ISO Standards and NIST IRs; see each term citation for which source this document cites
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tion	5.3.1 Background Knowledge and Observations	David Poole and Alan Mackworth	Artificial Intelligence: Foundations of Computational Agents			2000	https://artint.info/html/ArtInt_112.html	
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	About ML Packages	LiParh	UiPath Al Center Guide			2021	https://docs.uipath.com/si-fabric/v0/docs/about-ml-nackanes	I am mussing on the year as of this date (III /23 /2022), the nage says. "Lindated 12 months ago."
TechTarget_data_point Morris_John_data_point	data point What is a data point in a machine learning model?	Katie Terrell Hanna and Ivy Wigmore	TechTarget				https://www.techtarget.com/whatis/definition/data-point	See note for 'point' regarding the full definition here. Last updated July 2022. See note for 'point' regarding the full definition here. Originally published July 30, 2022.
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h_Python Techopedia_lemmatization		Alberto Artasanchez and Prateek Joshi Techopedia	Using Python 3.x, 2nd Edition Techopedia		351-378		228pg-PA358printsec-frontcover https://www.techonedia.com/definition/33256/lemmatization	Definition for "lemmatization" appears on page 356.
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Lim_Swee_Kiat_harms	Understanding Bias Part I	Lim Sweet Kiat	Machines Gone Wrong			2009	https://machinesponewrong.com/bios-i/#two-types-of-harms https://machinesponewrong.com/bios-i/#two-types-of-harms https://machinesponewrong.com/bios-i/#two-types-of-harms https://machinesponewrong.com/bios-i/#two-types-of-harms https://machinesponewrong.com/bios-i/#two-types-of-harms	See notes column for harms of allocation, harms of bias, and harms of representation
	Data minimisation and privacy-preserving techniques in AI systems Data Minimization	Information Commissioner's Office European Data Protection Supervisor	ICO Al Blog				https://ico.org.uk/about-the-ico/media-centre/ai-blog-data-minimisation-and-privacy-preserving-techniques-in-ai-systems/ https://edus.europa.eu/data-protection/data-protection/elossary/d_ep	Published on August 21, 2022.
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NIST_CSatc_parity	parity	NIST Computer Security Resource Center	NIST Computer Security Resource Center				https://csrc.nist.gov/afossay/term/parity	See page 163 for definition of "learning"; many other specific kinds of "learning" are defined here
	L	Dennis Mercadal	Dictionary of Artificial Intelligence Proceedings of the 28th European Conference on Information Systems (ECIS), An			1990	https://archive.org/details/dictionaryofarti0000merc/page/162/mode/2up?view-theater	as well.
Ekaterina_et_al_2020	Why Are We Averse towards Algorithms? A Comprehensive Literature Review on Algorithmic Aversion	Ekaterina Jussupow, Izak Benhasat, and Armin Heinzl	Online AIS Conference			2020	https://aisel.aisnet.org/ecis2020_rp/168/	
	Artificial Intelligence, Values, and Alignment	lason Gabriel Rukhin, Andrew, Juan Soto, James Nechvatal, Miles Smid, Elaine Barker, Stefan Leigh, Mark Levenson, et al.	Minds and Machines	30			https://link.springer.com/article/10.1007/st1023-020-09539-2	
nist_800_2000	A Statistical Test Suite for Random and Pseudorandom Number Generators for Cryptographic Applications.	Stefan Leigh, Mark Levenson, et al.	NIST SP-800-22ra ISO/IEC 2382-31			2000	https://doi.org/10.6028/NISTSP-800-22rla	
iso_2382_1997 iso_22989_2022	A Statistical Test Statis or Statistical and Personal and Personal Testing of Chypiographic Applications. Information technology — Vocabulyr Part SI Artificial intelligence — Matchine learning Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	ISO	ISO/IEC 22989			2022	https://www.iso.org/standard/74298.html	
european_ethics_2019	Ethics Guidelines for Trustworthy Al A Survey of Value Sensitive Design Methods	High-Level Expert Group on Artificial Intelligence Butya Friedman, David G. Hendry, and Alan Borning	Draft Report Foundations and Trends® in Human-Computer Interaction				https://ec.europa.eu/futurisum/en/si-aliisnee-consulation1.html https://ewwn.nongublishers.com/article/Details/HCI-015	
Bipartisan_Policy_Center_i		Sean Long, Jeremy Pesner, and Tom Romanoff	Bipartisan Policy Center				https://bipartisanpolicy.org/blog/impact-seessments-for-sir/	Published November 9, 2022
mpact_assessments	expanser: impact Assessments for Artificial intelligence	Scan Long, severny Pesner, and 10th somation	apartisan roucy Center			2022	tutus comparisaments core roug rimates assessmentes core at himse Province quies con Roude (solitor Remodeler, Management in Theory and Pract/ Mos/mod/lbl/Thl-mod/spe-lbdq/fs Pract/ Mos/mod/lbl/Thl-mosaures speciales inner context and obtain about the rouber-op-pure going which are often difficult consumer quantitatively/fs 228.0000 PMA differentee-fortices con-	Published November 9, 2022
Kimiz_Dalkir_2001	The Value of Knowledge Management	Kimiz Dalkir	Knowledge Management in Theory and Practice			2001	22Qualitative-measures-provide-more-context-and-details-shout-the-value-e-g-perceptions-which-are-often-difficult-to-measure-quantitatively/6- 228pg-PA34Stprintsec-frontoner	Definition 1 for 'qualitative measurement' is on page 343 ('Qualitative measures can serve to').
							https://www.google.com/heoks/edition/Cost_Management/HhDc/EAA/OBAPhi-eokghgw-8kdp-% 22Oualitative-measurement-implies-the-user-of-data-expressed-in-exaterories-such-as-customer-reviews-of-new-model-iot-skie%	
Cost_Management_ch2		Don R. Hansen; Maryanne M. Mowen; Dan L. Heitger	Cost Management			2021	228og-PA38kprinter-fronterier https://www.google.com/hooks/edition/The_Oxford_Handbook_of_Ebics_of_AL/8PQTEAAAQ8A76d-en&phys-18dq-%	Definition 2 for "qualitative measurement" is on page 343 ("Qualitative measures can serve to").
bility_and_Artificial_Intelli	Responsibility and Artificial Intelligence	Virginia Dignum	The Oxford Handback of Ethics of Al		215-232	2020	22. Inderstanding the values behind the technology and deciding on how we want our values to be incorporated in Al-systems requires that we sure values to the incorporated in Al-systems requires that we sure values to the incorporated in Al-systems requires that we sure values to the incorporated in Al-systems requires that we sure values to the incorporated in Al-systems requires that we want to be incorporated in Al-systems requires the al-systems required in Al-systems requires that we want to be incorporated in Al-systems required in A	Definition 1 for "values" is taken verbatim from page 221; see the note at the end of the term's
	Avoiding Disparity Amplification under Different Worldviews	Yeom, Samuel, and Michael Carl Tschantz	FACCT 2021: In Proceedings of the 2021 ACM Conference on Fairness, Accountability,		273-283	2021	https://doi.org/10.145/344288.3445802	
yeom_avoiding_2021 Merriam-Webster_context	wouling tooparity Ampaiacation under Districta Workswiews	Merriam-Webster	PACE LOCAL IN Proceedings of the 2021 ACM Conference on Fairness, Accommunity, and Transparency Merrian-Webster Dictionary		2/3/293	2021	https://www.merriam-webster.com/dictionary/context	Taken from definition 2
jacobs_measurement_2023	Measurement and Eurness	Jacobs, Abigail Z., and Hanna Wallach	FAccT 2021: In Proceedings of the 2021 ACM Conference on Fairness, Accountability, and Transparency			2021	https://doi.org/10.195/344298.3445901	
Merriam-Webster_impact	impact	Merriam-Webster	Merriam-Webster				https://www.merrism-webster.com/distionary/impact https://www.moorfe.com/books/edition/The_SAGE_Encyclopedia_of_Ossilistrive_Res/byhdawsAQ8AI?	Taken from definition 2
							https://www.google.com/books/edition/The_SAGE_Encyclopedia_of_Qualitative_Res/bynDawAA38A77 hl-enRghpv=Bdq=Mixed+methods-is-defined-as-research-in-which-the-inquirer-or-investigator-collects-and-analyzes-data_tintegrates-the-findings_	
Lisa_M_Given_SAGE	M: Mixed Methods Research	Lisa M. Given	The SAGE Encyclopedia of Qualitative Research Methods		491-538		**and draws inference susmit both qualitative and quantitative approaches or methods in a single study or a program of study. **Rog-PTS48 printee-front circum.** **Rog-PTS48 printee-front circum	Definition for "mixed methods" appears on page 526.
NIST_AI_RMF_1.0 45_CFR_46_2018_Require	NIST ALRMF 1.0	NIST	NIST AI RMF LD			2023	https://mleubs.nist.gov/nistpubs/si/NISTAI 000-1.pdf	Definition 5 for "risk" comes from p. 3 of NIST AI RMF 1.0.
ments_ (2018_Common_Rule)		United States Department of Health and Human Services (HHS)	45 CFR 46			2008	https://www.bhs.gov/ohrp/regulations-and-policy/regulations/45-efr-46/revised-common-rule-regulatory-text/index.html	
cambridge_causative_2023	Cambridge Dictionary: causative	Cambridge	Cambridge Dictionary			2023	https://dictionary.cambridge.org/us/dictionary/english/causative	
lyons_contestability_2021 cambridge_contestable_20 23	Conceptualising Contestability: Perspectives on Contesting Algorithmic Decisions	Lyons, Henrietta, Eduardo Velloso, and Tim Miller	Proceedings of the ACM on Human-Computer Interaction				https://doi.org/10.185/344080	
			Cambridge Dictionary			2023	https://dictionary.cambridge.org/us/dictionary/english/contestable https://www.noorle.com/books/edition/Machine_Learning_in_Riotechnology_and_Li/KUVWEAAA0RAI7hl=en&ubov=8&do=%	
Saleh_Alkhalifa_ML_in_Bi otech	Supervised Machine Learning	Salch Alkhalifa	Machine Learning in Biotechnology and Life Sciences: Build Machine Learning Models Using Python and Deploy Them on the Cloud		168-233	2022	https://www.google.com/hooks/edition/Machine_Learning_in_Flotechnology_and_LL/RU/WEAAA0847hl-enlighpe-likdg=% 22We-com/drine-supervised-learning-use-uponeral-subsets of machine-barning-in-which-dust olke-in-suscontectable-in-sused-to-train-models-th at com/learner-generalize-from the-data to-make-predictions-repetable-with-us-high-dustereed-re-training/22Rus-PAMSRaderintee-frontcoace	Definition 4 for "supervised learning" appears on page 168; definition 2 for "regression" also appears on page 168
							https://www.google.com/books/edition/Contemporary_intellectual_Assessment/AhmDwAADRA764-enkyboo-kida-46 Ziformal-copertiseris-theressult-of-a-selfook-citoo-of-a-domain-of-booksleds-that-is-mastered-deliberately-and-for-which-there-are-clear-bench	
nagan_McDonough_2018	The Cattell-Horn-Carroll Theory of Cognitive Abilities	W. Joel Schneider and Kevin S. McGrew; edited by Dawn P. Flanagan and Erin M. McDonough	Contemporary Intellectual Assessment: Theories, Tests, and Issues		73+163	2008	marks+of+success+Fisher+Keil+2016%228pg-PAIT8printsec-frontcover	Definition 1 for "expertise" appears on page 117.
Little_2013		Todd D. Little	Longitudinal Structural Equation Modeling		71-105	2003	https://www.google.com/books/edition/Longitudinal_Structural_Equation_Modelin/gurCuSFEHCfbl=en&gbg=4&dq=%22Measurement=model% 22&pg=PAIO3kprintsec=frontcorer	Definition 1 for "measurement model" appears on page 103.
Merriam- Webster_executive	executive	Merriam-Webster	Merriam-Webster Dictionary				https://www.merriam-webster.com/dictionary/executive	Definition 1 for "executive" is taken from Merriam-Webster's definition of "executive" 2 of 2 noun 3.
							https://www.eoorle.com/books/edition/The Engineering Handbook/I TLBOAAOBAFhl-en&gbov-t&do-%	Definition 1 for "error propagation" is taken from mass 152-technically the teethood officer that
Dorf_2018 Merriam-Webster example	Measurement and Instrumentation	Richard C. Dorf Merriam-Webster	The Engineering Handbook Merriam-Webster Dictionary		151-160	2008	228gg-\$409-PA7IRprintee-frontoser https://www.merriam-webster.com/dictionary/example	Definition 1 for "error propagation" is taken from page 152; technically, the textbook offers the term as "propagation of uncertainty," which is synonymous with "error propagation."
Merriam-Webster_example Merriam-Webster_ethic		Merriam-Webster Merriam-Webster	Merriam-Webster Dictionary Merriam-Webster Dictionary				https://www.merriam-webster.com/dictionary/example https://www.merriam-webster.com/dictionary/ethic	
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berthold_guide_2020	Guide to Intelligent Data Science: How to Intelligently Make Use of Real Data	and Rosaria Silipo	Springer International Publishing			2020 2023	https://doi.org/10.1007/978-3-030-45574-3	
homelow addressing again	Human-Al Interactions in Public Sector Decision Making: 'Automation Bias' and 'Selective Adherence' to Algorithmic Advice.	Alon-Barkat, Saar, and Madalina Busuioc Humphrey, Holly I., Dana Levinson, Marc A. Nivet, and Stephen C. Schoenhaum		33 1	153-169		https://doi.org/10.1093/jopart/muar.002	
0 knoth art 1981	Addressing Harmful Bias and Eliminating Discrimination in Health Professions Learning Environments: An Urgent Challenge.	Schoenbaum Donald Knuth	Academic Medicine Addison-Wesley	95 12S		2020	https://doi.org/10.1017/ACM.0000000000003579	
garey_computers_1979	The Art of Computer Programming, Volume 2: Seminumerical Algorithms Computers and Intractability: A Guide to the Theory of NP-Completeness	Michael Garey and David Johnson	W. H. Freeman	-		1979		
cambridge_impact_2023 law_policy_2023	Impact Policy		Cambridge Dictionary The Law Dictionary			2023	https://dictionary.com/midge-ong/us/dictionary/english/impact. https://thelandictionary.ong/midgy/#>-text-Definition%20%2592DCtations%3A.as%20directed%20x/%20the%20POLICY	
fernandez_residual_1992	Residual Analysis and Data Transformations: Important Tools in Statistical Analysis	Fernandez, George C. J.	HortScience	27 4	297-300	1992	unge_clish_cond; summyne_d_rep_cond_cond_cond_cond_cond_cond_cond_cond	
		Patricia Leavy	The Oxford Handbook of Qualitative Research		1-13	2009		Definition of "qualitative research" is taken from page 2.
Barbour_2014 Merriam	The scope and contribution of qualitative research	Rosaline S. Barbour	Introducing Qualitative Research: A Student's Guide, Second Edition		11-27	2064	https://archive.org/details/introducingquali0000barb_jibh/page/12/mode/2up/view+theater	Definition of "qualitative research" is taken from page 13.
Merriam- Webster_engineer Al_Incident_Editors	engineer Editor's Guide	Merriam-Webster Al Incident Database	Merriam-Webster Dictionary Al Incident Database				https://www.merrium-webster.com/dictionary/engineez https://incidentdatabase.si/editors-guide/	Definition takes from both the noun and verb definitions.
	Context of Use		Interaction Design Foundation			2023	https://www.interaction-design.org/literature/book/the-glossary-of-human-computer-interaction/context-of-use	
AAAS_AI_and_Bias_2022- 09	Artificial Intelligence and Bias - An Evaluation	M. Karanicolas and M. Knodel	Artificial Intelligence and the Courts: Materials for Judges			2022	https://doi.org/10.1126/japa.adf0788	Definition for "racialized" taken from page 11.
Seth_Boden_2020	Artificial Intelligence and Bias - An Evaluation Start Here: A Primer on Diversity and Inclusion (Part 1 of 2) Diversity and Inclusion Diversity Diversity and Inclusion Diversity	Seth Boden	Harvard Business Publishing George Washington University Office for Diversity, Equity and Community Engagement			2020	https://www.harvardbusiness.org/start-here-a-primer-on-diversity-and-inclusion-part-t-of-2/	July 23, 2020
ion	Diversity and Inclusion Defined	George Washington University	Engagement				https://diversity.gov.edu/diversity-and-inclusion-defined	
HUD_diversity_and_inclus ion	Diversity and Inclusion Defined Diversity and Inclusion Definitions	U.S. Department of Housing and Urban Development	U.S. Department of Housing and Urban Development				https://www.hud.gov/program_offices/administration/admabout/diversity_inclusion/definitions	
	fleffenisity in quantitative research: A rationale and beginner's guide	Michelle K. Jamieson, Gisela H. Govaart, and Madeleine Pownall	Social and Personality Psychology Compass				https://doi.org/10.101/j.goc/1775	Definition for "referritivity" appears on page 2. Jamieson, Gowart, and Downall (Belferritivity in quantitative research A rationale and beginner's gloid ray neepleasanc (Carls Willie's ideas, but in their citation of Willie's blook (Introducing Qualiforitie Rosearch in Psychology), they're not providing a page mather where they are perspirative place Willie's defines refereively, so they must be perspiratively the general series throughout the book, maybe, I goess that gives us the most be perspiratively from the contractive of the contra
Jameson_Govaart_Fownan	жиелицу и финкция гененест. А газовшие апо вединее к диосе	Michelle R. Jamieson, Greta H. Goviart, and Madelenie Powran	Social and Personality Psychology Corepias	612/35		2023	https://www.soorle.com/hooks/edition/Industrial_Network_Security/POtoorFwaUC7td=en&shor=6&da-%	Union Gerifficher.
Industrial_Network_Securi ty_20ff			Industrial Network Security: Securing Critical Infrastructure Networks for Smart Grid, SCADA, and Other Industrial Control Systems				22Data=retention=refers=to=the-amount=of-information=that-is=stored+loap=term, sand+can+be=measured+in=volume= (the=size=of-the=total=collected+loap=in=bytea)=and+time=(the=number=of-months=or=vears+that+loap=are=stored+for) %	Definition for "retention limit" appears on page 243; appears as "data retention" in the book, but works for "retention limit."
		Eric D. Knapp and Joel Langill	SCADA, and Other Industrial Control Systems			2001	228gg-PA2438printsec-front over	works for "retention limit." We can use this to cite any moments that we use a ChatGPT-generated definition in lieu of a more neutrolistic or common.
ChatGPT Merriam-Webster parity	ChitGPT	OpenAl	Merriam-Webster Dictionary			2023	https://chat.opensi.com/chat	more authoritative source.
	Panty Explainable Artificial Intelligence (XAI): Concepts, Taxonomies, Opportunities and Challenges toward Responsible AI	Barredo Arrieta, Alejandro, Natalia Diaz-Rodriguez, Javier Del Ser, Adrien Bennetot, Siham Tabik, Alberto Barbado, Salvador Garcia, et al.		58	82-115		https://www.merrism-webster.com/dictionary/parity	
barredo_explainable_2020 jackman_oxford_2008	лерованием лимсков интенцентое (для): Concepts, такенопиек, сурроritanties and Chatlenges toward Responsible Al Measurement	Adrien Bennetot, Siham Tabik, Alberto Barbado, Salvador Garcia, et al. Simon Jackman	Information Fusion The Oxford Handbook of Political Methodology		de ub	2020	https://doi.org/10.1016/j.inffus.2019.12.012	
Hammarberg_2016_Busett o_2020	1. Qualitative research methods when to use them and how to judge them; 2. How to use and assess qualitative research methods	K. Hammarberg, M. Kirlman, and S. de Lacey; 2. Loraine Busetto, Wolfgang Wick, and Christoph Gumbinger	1. Human Reproduction; 2. Neurological Research and Practice	1.31	1.3; 2.14	1. 2016; 2. 2020	Likips://scalemic.oup.com/humrep/wrisk/13/1/469/2384737; 2. https://hourolevegract.hienedcentral.com/arisks/13186/43466-030-00059-u	The definition combines two sources into one. I (Danny) have organized this citation row using 1, and 2, to mark, respectively, the Hammarberg [st. iii] and Buston to [st. iii] process. Clarkins I (pough) E. Khammarberg, M. Khammarberg, M
								to grants present our condenses two sources into one. I (Datroy) have organized this citation row using L and 2 to mark these two sources: I bassed, C. K., & Gregory, D. M. (2003) Evaluation of qualitative research studies. Evidence lased Nursing (62, 35–64) 2. Bramen J. Mosing methode: the certy of qualitative and quantitative approaches into the research process. In 3 Soc Res Method 2003;6737–984.
Russell_2003_Brannen_20 05		Cynthia K. Russell and David M. Gregory; 2. Julia Brannen	1. Evidence-Based Nursing; 2. International Journal of Social Research Methodology	16;2828	1.36-40; 2. 173-184	1. 2003; 2. 2007	1. http://dx.doi.org/10.1136/ebn.6.2.38; 2. https://www.tandfonline.com/doi/full/10.1080/13645570500154642	 Brannen J. Mixing methods: the entry of qualitative and quantitative approaches into the research process. Int J Soc Res Methodol 2005;8:173-184.
Pamela_Gob, 2021		Pamela Goh. Edited by Majeed Khader, Loo Seng Neo, and Whistine Xiau Ting Chai	Introduction to Cyber Forensic Psychology: Understanding the Mind of the Cyber				https://www.worldscientific.com/doi/abs/10.1142/9789811232411_0014	Definition 3 for "red-team" appears on page 298.
Annie_Jacobsen_2005		Annie Jacobsen	Deciant Perpetrators The Pontagon's Brain: An Uncensored History of DARPA, America's Top-Secret Military Research Agency				https://archive.org/foltable/centagous/brainan/000/jaco-clos/foape/542/mode/2mptq-%22a-role- playing=exercise-in-which-a-problem-in-examined-from-an-adversar/02=74500/00s-or-enemy/6225500/00s-perspective-%22	Definition 2 for "red-team" appears on page 342. (In the large print edition of this book, it's on page 501. But we should cite the regular edition.)
Ben_Auffarth_2021	Orline Learning for Time-Series	Ren aufforth	Machine Learning for Time-Series with Python: Forecast, Predict, and Detect Anomalies with State-of-the-art Machine Learning Methods	k	209-259	2021	parameters on the desired Parameter of the Control	Definitions 1 for "offline learning" and 'online learning" both appear on page 210.
	062 FW 1, Affirmative Employment Program and Plans	Office for Human Resources of the U.S. Fish & Wildlife Service	U.S. Fish & Wildlife Service			1996	https://www.fws.gov/policy/062fwl.html	
	assessment	Merriam-Webster	Merriam-Webster Dictionary				https://www.merrism-webster.com/dictionary/assessment	Definition 1 for "authonormamhism" senegg on provide definition 2 busing on as = 20 - 4
Anthropomorphism_in_AI_ 2020	anthropomorphism	Arleen Salles, Kathinka Evers, and Michele Farisco	AJOB Neuroscience	2	88-95	2020	https://doi.org/10.1080/21507740.2020.1740350	Definition 1 for "anthropomorphism" appears on page 90; definition 2 begins on page 89 and ends on page 90.
OECD_Artificial_Intelligenc e_in_Society	The second secon	OECD	Artificial Intelligence in Society		en a:	2009	https://www.pontory.nonnory.nonrevision/id-letellisence-in-Society/ebmdDwAAOBAPhl-enðy-\$kdo-\$k 12Dartificial-narrow-intelligence-Akil-or-applied-Al-is-designed-to-accomplish-a-appetific-problem-solving-to-reasoning-task%	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
e_in_Society	тие остинен шинеларе	OBLD	Artspease munifigence in Society		19-34	2009		ine ocumuon ser "artificial narrow intelligence (ANI)" appears on page 22.
Al_in_Medical_Imaging_gl ossary	Glossary	Erik R. Ranschaert, Sergey Morozov, and Paul R. Algra, eds.	Artificial Intelligence in Medical Imaging: Opportunities, Applications and Risks		349-364	2009	https://www.google.com/hooks/feltien/Artificial_intelligence_in_Medical_Imag/ArtifichaAt/BAThl-endefpsy-likin-fi 2Thr-eld-finition-of-artificial-in-investigates-in-in-contrast to-in-tu-of-artificial-general-intelligence-which-aims at specialized accommodate activities of the artificial-general-intelligence-which-aims at specialized accommodate activities and accommodate accommodate activities and accommodate accommodate activities and accommodate activities and accommodate activities accommodate activities and accommodate activities accommodate activities and accommodate activities activities accommodate accommoda	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
DOL_Practical_Significanc e	unusury Practical Significance in EEO Analysis Frequently Asked Questions	LLS Department of Labor Office of Foderal Contract Compliance	U.S. Department of Labor Office of Federal Contract Compliance Programs			2021	https://www.dol.gov/agencies/ofcen/fags/practical-significance	Page last updated January 15, 2021.
		Cambridge Dictionary	Cambridge Dictionary				https://dictionary.cambridge.org/us/dictionary/english/non-discrimination	
Signal_Detection_Theory	Signal Detection Theory	N.A. Macmillan	International Encyclopedia of the Social & Behavioral Sciences		14075-14078	8 2001	https://doi.org/10.1016/B0-08-043076-7/00677-X	
Techopedia_kill_switch Batya_Friedman_VSD_Intr	Kill Switch	Techopedia	Techopedia				https://www.techopedia.com/definition/4001/kiii-switch	Page last updated August 8, 2019
oduction C3.ai_feedback_loop	Introduction What Is a Feedback Loop?	Butya Friedman and David G. Hendry	Value Sensitive Design: Shaping Technology with Moral Imagination		1-17	2009	https://doi-org.prox/library.georgetown.edu/10.7553/mitgress/7585.003.0002 https://d3.ii/dossary/features/feedback-loop/	Definition for values comes from page 4.
Collins_Dictionary_ground _truth	. streamed truth		Collins Dictionary				https://www.collinslistingary.com/ps/distingary/english/dmyndstruth	
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ID	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volume Iss	ue P	Page(s)	Year	URL	Notes
Wikipedia_Decision=									Check out The New Science of Management Decision (1977) to try to locate the original source of
	Decision-making The limits of machine intelligence	Wikipedia Henry Shevlin, Karina Vold, Matthew Crosby, and Marta Halina	Wikipedia FMRO Reports	20 10		M9177	2009	https://en.wikipedia.org/wiki/Decision-making https://www.orbi.nlm.nih.nw/ome/stricles/PMC6778890/	the definition.
Shevlin_et_al_2019	The limits of machine intelligence The Americans with Disabilities Act and the Use of Software, Algorithms, and Artificial Intelligence to Assess Iob Applicants and	Henry Shevim, Karma Vold, Matthew Crosby, and Marta Halma	EMBO Reports	20 10	e	5491//	2009	https://www.nchu.nim.min.gov/pmsc/articles/PMC%/ASSRIZ	
EEOC_ADA_AI	Employees	U.S. Equal Employment Opportunity Commission	U.S. Equal Employment Opportunity Commission				2022	https://www.eeoc.gov/laws/guidance/americans-disabilities-act-and-use-software-algorithms-and-artificial-intelligence	Definition for "screen out" taken from this page.
Merriam-	green and		Merrian-Webster Dictionary						
Webster_screen_out apa_experiment_2023	screen out	Merriam-Webster American Psychological Association (APA)					2023	https://www.merrium-webster.com/dictionary/screen%20out https://dictionary.apa.org/experiment	
APA_DoP_laboratory_rese	experiment	American Psychological Association (APA)	APA Dictionary of Psychology				2023	HALLES AND	
arch	laboratory research	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/laboratory-research	
UNODC_Glossary_QA_GL	Glossary of Terms for Quality Assurance and Good Laboratory Practices	Laboratory and Scientific Section of the United Nations Office on Druss and Crime	Glossary of Terms for Quality Assurance and Good Laboratory Practices				2000	https://www.unodc.org/documents/scientific/ST_NAR_28_Endf	
World_Wide_Words_In_si	Gossary of Terms for Quanty Assurance and Good Laboratory Practices						2009		
lico	In silico	World Wide Words	World Wide Words					http://www.worldwidewords.org/weindwords/ww-inst.htm	
Bassiouni_Baffes_Evrard	An Appraisal of Human Experimentation in International Law and Practice: The Need for International Regulation of Human	M. Cheriff Bassiouni, Thomas G. Baffes, and John T. Evrard	Journal of Criminal Law and Criminology	72 4		1597-1666	1001	https://scholarlycommons.low.northwestern.edu/csi/viewcontent.csi?article=62788context-iclc	
Merriam-Webster_amplify	amplify	Merriam-Webster	Merrian-Webster Dictionary	12 4	1	1307-1000	1981	https://www.merriam-webster.com/dictionary/amolify	
		Neha Gupta, Suncet K. Gupta, Rajesh K. Pathak, Vanita Jain, Parisa							
	Human activity recognition in artificial intelligence framework: a narrative review	Rashidi, and Jasjit S. Suri	Artificial Intelligence Review	55	4	1755-4808	2022	https://link.springer.com/article/10.1007/x10462-021-10116-x	
Merriam- Webster_annotate	appelute	Merriam-Webster	Merriam-Webster Dictionary					https://www.merriam-webster.com/dictionary/annotate	
		Scott Freeman Sarah I. Eddy Miles McDonough Michelle K Smith							
Freeman_et_al_2014	Active learning increases student performance in science, engineering, and mathematics	Nnadozie Okoroafor, Hannah Jordt, and Mary Pat Wenderoth	PNAS	111 23	8	8410-8415	2064	https://www.pnas.org/doi/full/10.1073/pnas.13190.30111	
		Anderson Monken, William Ampeh, Flora Haberkorn, Uma						https://www.google.com/books/edition/Al-Assurance/dch6EAAAORA7Nh-en&ghpy=Rdq=% 27Lange-language-modeled LMassarcase laga-of-language-modele that was educational and three-surface-trained-con-extremely-lange-tray turb-de-	The definition for "large language model (LLM)" appears on page 376. This book was edited by
Al_Assurance_2022	Assuring AI methods for economic policymaking	Krishnaswamy, and Feras A. Batarseh	Al Assurance: Towards Trustworthy, Explainable, Safe, and Ethical Al		3	371-428	2022	2X arge-language-modelse LLMs-area-class-of-language-modelsethat-use-deco-learning-algorithms-and-are-trained-on-extremely-large-textual-datasets-that-can-be-multiple-terabytes-in-size/s/22kgg-PA768printses-front-oxer,	Feras A. Batarseh and Laura Freeman.
Poore_Lawrence_ARLIS_2 023-01	Al Engineering: An Academic Research Boadman	Joshua Poore and Craig Lawrence	Applied Research Laboratory for Intelligence and Security (ARLIS)				2023		We have this PDF, but I do not think it is readily available online. See also https://www.arlis.
023-01 Survey_of_Hallucination_i	Al Engineering An Academic Research Roadmap	Joshua Poore and Craig Lawrence Ziwei Ji, Nayeon Lee, Rita Frieske, Tiezheng Yu, Dan Su, Yan Xu, Etsuko	Applied Research Laboratory for Intelligence and Security (ARLIS)				2023		umd.edu/sites/default/files/2022-03/No_Al_In_Teams_FinalReport%20(f).pdf.
n_NLG	Survey of Hallucination in Natural Language Generation	Ishii, Ye Jin Bang, Andrea Madotto, and Pascale Fung	ACM Computing Surveys	55 12	1	1-38	2023	https://di.acm.org/doi/10.1145/3571730	Definition for 'hallucination' is taken from page marked 248:3.
	clustering	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/clustering	
APA_content_validity	content validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/content-validity	
	ISO 9241-II:2018(m) Ergonomics of human-system interaction = Part II: Usability: Definitions and concepts	ISO	ISO Online Browsing Platform				2018	https://www.iso.ont/obp/ui/#isostdiso50241-tited-2xtien	
	criterion validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/criterion-validity	
									This term in the APA dictionary is "data analysis"; the term in our glossary is "data analytics." The
APA_data_analysis	data analysis	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/data-analysis	terms are not necessarily synonymous, but we are including the "data analysis" definition in with "data analytics."
	decision making	American Psychological Association (APA)	APA Dictionary of Prechology					https://dictionary.apa.org/decision-making	
Lehto_Nanda_2021	Decision-Making Models, Decision Support, and Problem Solving	Mark R. Lehto and Gauray Nanda	Handbook of Human Factors and Ergonomics, Fifth Edition		15	159-202	2021	https://www.wiley.com/en-us/Handbook+of+Human+Factors+and+Ergonomics952C+5th+Edition-p-9781119636083	The editors of this book are Gavriel Salvendy and Waldemar Karwowski
Baron_Thinking_and_Deci		Jonathan Baron					2008		
ding		Jonathan Baron	Thinking and Deciding				2008		Page 6: also cited here: https://www.redalyc.org/journal/5538/553866738009/html/
EO_DEIA_2021	Executive Order on Diversity, Equity, Inclusion, and Accessibility in the Federal Worldorce	Joseph R. Biden Jr.	The White House				2021	the-federal-workforce/	This executive order was published on June 25, 2021.
	ethics	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/ethics	
	external validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dectionary.apa.org/external-validity	
	False Negative	NIST CSRC	Information Technology Laboratory Computer Security Resource Center Glossary					https://csrc.nist.gov/glossary/term/false_negative	
	False Positive	NIST CSRC A. Wilke and R. Mata	Information Technology Laboratory Computer Security Resource Center Glossary		_	581-595		https://csrc.nist.gov/plossary/term/false_positive https://d3.amannaus.com/arena-struchments/555408/dds/95455-d5540ad/22e606-y93tabb.ndf	Edited by V.S. Ramachandran
Wilke_Mata_2012 AIID incident response	Cognitive Bias Definitor an "Al Incident Response"	A. Wilke and R. Mata Sean McGrestor	Encyclopedia of Human Behavior Artificial Intelligence Incident Database	1	5	231-232	2002	https://s3.amannaws.com/arena-attachments/553491/to6697da35ed53a0a022e906ce90la0d.pdf https://incidentdatabase.si/research/5-response/	Edited by V.S. Ramachandran
	intervity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/integrity	
APA_internal_validity	internal validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/internal-validity	
APA_learning	learning	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/learning	
	The McNamara Fallacy	Jonathan Cook	The McNamara Fallacy				2023	https://mcnamarafellacy.com/	
Creswell_Clark_mixed_me thods		John W. Creswell and Vicki L. Plano Clark	Designing and Conducting Mixed Methods Research. Third Edition				2007		I don't know which chapter and page this citation comes from; all I know is that it's somewhere in this book
	observation	American Psychological Association (APA)	APA Dictionary of Psychology				2007	https://dictionary.ang.org/observation	III UIB OOM.
Glossary of Statistical Te									
	Glossary of Statistical Terms	Philip B. Stark	SticiGui				2009	https://www.stat.berkeley.edu/~stark/SticiCui/Text/gloss.htm	
	Root-mean-square-deviation	Wikipedia American Psychological Association (APA)	Wikipedia APA Dictioners of Psychology					https://en.wikipedia.org/wiki/Boot-mean-square_deviation https://doctionary.aeg.org/recognition	
APA_recognition	recognition recall	American Psychological Association (APA)	APA Dictionary of Psychology APA Dictionary of Psychology					https://dictionary.apa.org/recall	
	Scrootype	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/stereotype	
	The Construction of Stereotypes within Social Psychology: From Social Cognition to Ideology	Martha Augoustinos and Iain Walker	Theory & Psychology	8 5	6	529-652	1998	https://doi.org/10.177/0059354398085003	Definition 3 for "stereotype" is taken from page 631.
APA_autonomy	autonomy	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/autonomy	
	Grounded Theory Methods for Qualitative Psychology	Kathy Charmaz and Karen Henwood	The SAGE Handbook of Qualitative Research in Psychology					https://doi.org/10.4835/9781528405555	
	Critical Technical Avakenings	Maya Malik and Momin M. Malik	Journal of Social Computing	2 4	3	365-384	2021	https://seexplore.ieee.org/stamp/stamp/sp/tp=Ramumber=9698152	
	reflexivity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/reflexisity	
Lee_See_2004 Mayer Davis Schoorman	Trust in Automation: Designing for Appropriate Reliance	John D. Lee and Katrina A. See	Human Factors: The Journal of the Human Factors and Ergonomics Society	46 1	5	50-80	2004	https://doi.org/10.1518/hfrs.46.1.50 30302	
1995	An Integrative Model of Organizational Trust	Roger C. Mayer, James H. Davis, and F. David Schoorman	The Academy of Management Review	20 3	7	709-734	1995	https://doi.org/10.2307/258702	
	NISTIR 8280. Face Recognition Vendor Test (FRVT). Part 3: Demographic Effects	Patrick Grother, Mei Ngan, and Kayee Hanaoka	NIST				2009	https://mlpubs.nist.gov/nistpubs/ir/2019/NIST.IR.8280.pdf	
	Usability Testing	Lisability.gov	Lisability.gov					https://www.usability.gov/how-to-and-tools/methods/usability-testing.html	
Encyclopedia. com_underrepresentation	Undergrennentation	Encyclopedia.com	Encyclopedia.com					https://www.encyclopedia.com/social-sciences/applied-and-social-sciences-magazines/underrepresentation	
Arham_Islam_History_202									
3	A History of Generative Al: From GAN to GPT-4	Arham Islam	MarkTechPost					https://www.marktechpost.com/2023/03/21/a-history-of-generative-ai-from-gan-to-ggt-4/	Published March 21, 2023
	What is generative Al?	McKinsey & Company	McKinsey & Company				2023	https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-generative-ai	Published January 19, 2023
	Toward Verified Artificial Intelligence	Sanjit A. Seshia, Dorsa Sadigh, and S. Shankar Sastry	Communications of the ACM	65 7	4	46-55	2022	https://cacm.acm.org/magazines/2022/7/282079-toward-verified-artificial-intelligence/fulltest	
Liam_Tung_2022_Meta_h allucination	Meta warns its new chatbot may forget that it's a bot	Liam Tung	ZDNet				2022	https://www.adnet.com/article/meta-warns-its-new-chathot-may-not-tell-you-the-truth/	Published August 8, 2022
Merriam-									-
Webster_requirement	requirement	Merriam-Webster	Merriam-Webster Dictionary					https://www.merrism-webster.com/dictionary/requirement	

- [1] Add citation to citations sheet and only list ID in these columns $% \left(1\right) =\left(1\right) \left(1$
- [2] Make sure the spelling matches another term (value in A column)