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
											and synonyms definition [2] applicable
	I) relates to an allocated responsibility. The responsibility can be based on regulation or agreement or through assignment apart of delegation; 2) for systems, a property that ensures that actions of an entity can be traced uniquely to the entity; 3) in a governance context, the obligation of an individual or organization to account for its activities, for completion of a deliverable or task, accept the repossibility by those activities, deliverables or tasks, and to disclose the results in a transparent manner.	5723·2022(en)		ISO/IEC_TS_ 5723/2022(en)							
ccuracy	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. I 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 test 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)	
	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, observe the output and incorporate the new (x, y) pair into its training base. It has been applied to neural networks, prediction functions, and clustering functions.			settles_active _2009	the process of learning through activities and/or discussion in class, as opposed to passively listening to an expert.	Freeman_et_ l_2014	a				
ctive learning agent	In 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].	Russell_and_! orvig									passive learning agent
tivity	Work that an organization performs using business processes; can be singular or	PA		CSRC							
daptive dynamic rogramming	An adaptive dynamic programming (or ADF) 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_! 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	N.						
	Updating predictive models online during their operation to react to concept	Gama,_Joao	neghorhood structure of the environment.								
idversarial example	drifts Machine learning input sample formed by applying a small but intentionally worst-case perturbation to a clean example, such that the perturbed input causes a learned model to output an incorrect answer.	NISTIR_8269_ Draft	Samples generated from real samples with carefully designed imperceptible perturbations	Zhang, _Yonggang							adversarial perturbation
	causes a serince moster to outpot an incorrect answer. A notification of a private great precisit is unbantatibly the amount or on a substantially the terms requested in an application unless the creditor makes a constructive from the credit in a different anisonal or on other terms) and the anisonate or on the terms and the constructive from the credit is a different anisonate or on the credit is a different anison and the constructive anisonate or on the credit is a constructive and a constructive anisonate or on the credit is an interest or an unflowable change in the terms of an account that does not affect all our substantially all of a class of the creditor's accounts or iff and is a class of the creditor's accounts or iff and a class of the creditor's accounts or iff and a class of the creditor's accounts or iff and a class of the creditor's accounts or iff and is a class of the creditor's accounts or iff an interest and a constructive and a	ECOA									
adverse impact ratio	appearance to an understanding of the decision maker's intent and irrespective of the decision maker's intent and irrespective of the decision maker's intent and irrespective of the decision. The maker's intent and irrespective of the decision $\frac{1}{2} = \frac{1}{2} - \frac{1}{2} = \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = $	Varshney, _Kush									disparate impact ratio, relative risk ratio
agile	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.	s NSCAI							
Al principles	[An overarching concept, value, belief, or norm that guides AI development, testing, and deployment across the AI lifecycle. The CHECDJ identifies five complementary values—based principles for the responsible sevararchip of trustworthy AI and calls on AI across to promote and implement them inclusive growth, sustainable development and well-being human—centred values and fairness; transparency and explainability robustness, security and safety; and accountability.	OECD_CAI_re commendation									
algorithm	A set of computational rules to be followed to solve a mathematical problem.	Comptroller_0	5				precise rules for transforming specified inputs into specified outputs in a finite number of steps $$	knuth_art_15	algorithms are step-by-step procedures for solving problems. For concreteness, we can think of them simply as being computed programs, written in some precise computer languages	garey_comput ers_1979	
algorithmic aversion	biased assessment of an algorithm which manifests in negative behaviours and attitudes towards the algorithm compared to a human agent	Ekaterina_et_ al 2020									
alignment	ensur[ng] that powerful Al is properly aligned with human values. The challenge of alignment has two perison. The first part is chinded and focuses on how to formally encode values or principles in artificial agents so that they retably 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 agents.	Gabriel_2020									
amplification	[an act of amphifying, which is] to make larger or greater (as in amount, importance, or intensity).	Merriam- Webster_amp	Let [construct space] y' and [prediction space] y' be categorical. Then, a model exhibits disparity amplification if $y' \in [PoV] \cdot [PoV] = y' \in [PoV] \cdot [PoV]$, do is the total variation distance define as follows. Let VI and VI becartegorical random variables with finite supports VI and VI . Then, the clast variation distance between VI and VI in the VI VI VI VI VI VI VI VI	yeom_avoidin _2021 d	d .						
analytics	amport sure, or increasily. Analytics is the paljectation of scientific & mathematical methods to the study & analysis of problems involving complex systems. There are three distinct types of analytics: *Descriptive Analytics gives insight into past events, using historical data. *Predictive Analytics provides insight on what will happen in the future. *Precitypic Analytics helps with decision making by providing actionable advice.	informs_analy ics_2022									
annotation	Further documentation accompanying a requirement.	IEEE_Soft_Vo	[the act of] mak[ing] or furnish[ing] critical or explanatory notes or comment	Merriam- Webster_anne							
anomaly	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 perception or experiences.	, SP800-160 s							
	The process is which individually identifiable data is altered in such a way that it no longer can be related but to a given individual, almong many exhaulter than it as the contract of the	IAPP_Privacy_ Glossary	process that removes the association between the identifying dataset and the data subject	CSRC							
anthropomorphism	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_2 020	a particular human-like interpretation of existing physical features and behaviors that goes beyond what is directly observable	Anthropomorp hism_in_AI_3 020							
application	A software program hosted by an information system.	SP800-37	A hardware/software system implemented to satisfy a particular set of requirements.	CSRC	software or a program that is specific to the solution of an application problem	aime_measur ment_2022 citing ISO/IEI TR 24030	e C				
application programming 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.	Hands- On_Smart_Co									
artificial intelligence (AI) system	an engineered or machine-based system that can, for a given set of objectives, generate outputs such as predictions, recommendations, or decisions influencing real or virtual environments. Al systems are designed to operate with varying	ntract_Dev NIST AI RMF (Adapted from OECD Recommendat on AI:2019; ISO/IEC 22989:2022).									
	The ingestion of a corpus, application of semantic mapping, and relevant contology of structured and/or unstructured data that yields inference and correlation leading to the creation of useful conclusive or predictive capabilities in a given knowledge domain. Strong Al learning also includes the capabilities in a given knowledge domain. Strong all learning also includes the capability of creating unique physiotheses, attributing data relevance, precessing data relations in the capabilities of its parapose.	IEEE_Guide_I									
artificial narrow intelligence (ANI)	[an AI system that] is designed to accomplish a specific problem-solving or reasoning task.	OECD_Artifici al_Intelligence _in_Society									weak intelligence; applied

		Citation 1 [1]			Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition
rtificial neural etworks	A computing system, made up of a number of sinsple, highly interconnected processing clements, which processes information by its dynamic state response to external liquids.	Reznik,_Leon	inflations 1, a director graph is called an artificial yound between 4 (MN) if I has a been due to the most possible of the United Street (MN), a better end on dool for the Climers (MN), a better end on dool for the Climers (MN), a selector of the Climers (MN), a selector of the Climers (MN), and the condense due to the Climers (MN) and the Climers (MN) and the condense due to the Climers (MN) and the condense due to the Climers (MN) and the Clim								[2] applicable
issessment	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 cab	the action or an instance of making a judgment about something: the act of assessing something: APPRAISAL	Merriam- Webster_asser sment							
ittack			Any kind of malicious activity that attempts to collect, disrupt, deny, degrade, or destroy information system resources or the information itself.	CSRC							
ttribute	Property associated with a a set of real or abstract things that is some characteristic of interest.	IEEE_Soft_Vo	Any tour of unaction greater than the activities of the Control to	aime_measure ment_2022, citing ISO/IEC							
udit	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 compilance 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 compliance with specifications, standards, contractual agreements, or other criteria	NASA_Soft_S andards	I 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 totallo.	UNODC_Gloss ary_QA_GLP			
udit log	A chronological record of system activities, including records of system accesses and operations performed in a given period.						ruffued.				
thenticity	property that an entity is what it claims to be	ISO/IEC_TS_ 5723'2022(en)									
utomation	Independent machine-managed choreography of the operation of one or more digital systems.	IEEE_Guide_I PA	conversion of processes or equipment to automatic operation, or the results of the conversion	IEEE_Soft_Vo cab	The system functions with no/little human operator involvement; however, the system performance is limited to the specific actions it has been designed to do. Typically these are well-defined tasks that have predetermined responses (i.e., simple rule-based responses).	DOD_TEVV					
utomation bias	over-relying on the outputs of Al systems	David_Leslie_ Morgan_Brigg s									
	A nonther analyze plan-recent (MAT) compare system coupled of seming continuements, interpretapilors, accessing inches (pital as information - retentionments), interpretapilors, accessing interpretapilors, and characteristic continuements of the three deside the automotic system to self-ensage its environmental variable that enables the automotic system to self-ensage its environmental variables that enables the automotic system to self-ensage its properties of the self-ensage its environmental variables and interpretapilors, which is capabilities and limitations are, and how and why it as consecred to other systems, by a solid to confidence of the self-ensage interpretapilors, which is capabilities of the self-ensage and interpretapilors, which is capabilities of the self-ensage and reconfiger retent enter the note efficient computing process. 1. As also to optimize its performance to ensure the most efficient computing process. 1. As also to optimize its performance to ensure the most efficient computing process. 1. As also to optimize its performance to ensure the most efficient computing process. 1. As also to optimize its performance to ensure the most efficient computing the optimization of the configuration of the con										
utonomous vehicle		o_information Systems									
iutonomy	autonomy.) An autonomous system has a set of learning adaptive and analytical capabilities to respond to situations that were not pre-programmed or anticipated (i.e., decision-based responses) prior to system deployment, Autonomous or semi-post of the contract of the co	gy									
wailability	Ensuring timely and reliable access to and use of information.	SP800-37	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_ 5723:2022(en)					
oack-testing	with modeled forecasts during a development sample time period (in-sample back-testing) and during a sample period not used in model development (out- of-time back-testing), and at an observation frequency that matches the forecast horizon or performance window of the model.	Comptroller_C ffice									
oatched automation	Process automation execution of intentionally segregated work processes that are able to be processed irrespective of their contextual placement within a service.										
enchmark		IEEE_Soft_Vo cab	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_C ffice	The term benchmarking is used in machine learning (ML) to refer to the evaluationand comparison of ML methods regarding their ability to learn patterns in benchmark/datasets that have been applied as stundards? Benchmark/dataset that have been applied as stundards? Benchmarking could be thought of simplyas a santy check to confirm that a new method successfully mus as expected and carnellably find simple patterns that existing methods are known to identify.	olson_pmlb_ 017					
vias	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.	AI_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	(systemic bias) systematic difference in treatment of certain objects, people or groups in comparison to others	measurement iso22989_202	(mathematical) A point estimator \text{\texitext{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\texi{\text{\text{\text{\text{\text{\text{\texi{\texi{\text{\texitex{\text{\texi}\texitiex{\texi{\texi{\texi{\texi{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi	devore_probab ility_2004			
olas mitigation deorithm		Al_Fairness_3					page or fracta				
olas 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. Traditional methods of statistical bias testing blook at differences in predictions across protected classes, such as race or see. In particular, courts have looked to statistical bias testing to assess whether the challenged practice fliely caused the disparity and was not the result of chance or a nondiscriminatory factor.	SP1270									
nig data	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									
oinning	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									
siometric 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 ductyloscopic data;	GDPR	an including a principle call a hological or technical classratoristics, notability and information permissing on insideabally exceptionatelies and roby), that is used or in intended to be used singly or in combinations with neith other or with other destripting data, so retainfils insidead indexity. Rometers information includes, but is not limited to, imagery of the rist, retain, fingerprint, face, hand, palm, vent parterns, and our correctings, from which male inteller template, such as a patterns or rhythma, gait patterns or rhythms, and sleep, health, or exercise data that contain identifying information.	CCPA	Amountable pointed characteristic or personal behavioral ratic used to recognize the identity, or verify the classed identity, of an applicant facial images, flagsprintss, and the sean samples are all complex of biometries.	SP800-12					personal data; processing
ocosting	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 high accuracy by 'drong' classifier) by upweighting the examples that the model is currently misclassifying	aime_measure ment_2022, citing Machine Learning Glossary by Google									
	The loss of control, compromise, unauthorized disclosure, unauthorized acquisition, or any similar occurrence where: a person other than an authorized user accesses operatually accesses personally destruibable information; or an authorized user accesses personally identifiable information for another than authorized purpose.	CSRC									
oroad artificial ntelligence (broad AI)	Complex, computational, cognitive automation system capable of providing	IEEE_Guide_I PA									

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
uilt-in test	Equipment or software embedded in the operational components or systems as	SP1011									[2] applicable
	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 systems.										
oug-bounty	sequencing, data processing, and readout or inaturate or software systems. Reward given to independent security researchers, penetrations testers, and white har hackers for discovering exploitable software vulnerabilities and sharing this knowledge with the operator of a particular bug-bounty program (BBP).	Kuehn, _Andreas									
susiness process											
usiness process	A defined Set of unsafess acceivates that represent the seeps of tasks required to achieve a business objective, including the flow and use of information, participants, and human or digital resources. Discipline involving any combination of modeling, automation, execution, control, measurement and optimization of business activity flows, in support of	IEEE_Guide_I									
	enterprise goals, spanning systems, employees, customers, and partners within and beyond the enterprise boundaries.										
business 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. Business rules assert control, or influence the behavior, of a business process within computing systems.										
alibration	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/or frequency offset of the device under test with	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	aime_measure ment_2022,	Set of operations that establish, under specified conditions, the relationship between values indicated by a measuring instrument or measuring system, or values represented by a measuring instrument or measuring system, or	UNODC_Gloss ary_QA_GLP					
	respect to the standard, as well as the measurement uncertainty.		measurement uncertainties and, in a second step, uses this information to establish a relation for obtaining a measurement result from an indication	Guide 99	vanies represented by a material measure, and the corresponding known vanies of a measurand.						
apability	measure of capacity and the ability of an entity, person or organization to achieve its objectives. Single entry, single exit multiple way branch that defines a control expression.	5723:2022(en)									
	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.										
chatbot	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	5								
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.	IEEE_Guide_I PA									
classification	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_measure ment_2022, citing ISO/IEC TR 24030							
classifier	A model that predicts categorical labels from features.	AI_Fairness_3 60									
clustering	Detecting potentially useful clusters of input examples.	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.	aggarwal_clust ering_2013	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	APA_clusterin					
cognitive automation	The identification, assessment, and application of available machine learning also rithms for the nursose of leveraging domain knowledge and reasoning to	IEEE_Guide_I			animals, are recalled together.	g					
	The identification, assessment, and application of available machine learning algorithms for the papers of elveraging density has been passed in the case of the control of										
comitive computing	Compley computational systems designed to	IEEE Colds 1									
	Sense (perceive the world an Collect data); — Sense (perceive the world and collect data); — Act (make informed decisions and provide guidance based on this analysis in an independent way); and and and and and and and an	PA									
	human brain.										
column	In the context of relational databases, a column is a set of data values, all of a single type, in a table.	techopedia_co lumn_2022									
computer vision	The digital process of perceiving and learning visual tasks in order to interpret and understand the world through cameras and sensors. Use of a system outside the planned domain of application, and a common cause of performance gaps between laboratory settings and the real world.	NSCAI	An image understanding task that automatically builds a description not only of the image itself, but of the three dimensional scene that it depicts.	NBSIR_82- 2582		_					
concept anit	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,_soao	Systems that classify or predict a concept (e.g., credit ratings or computer intrusion monitors) over time can suffer performance loss when the concept they are 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., virus detection).	kaynor					
confidentiality	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, including means for protecting personal privacy and proprietary information.	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 unless they have been authorized to access the information.	CISA			
confusion matrix	A matrix showing the predicted and actual classifications. A confusion matrix is of size LxL, where L is the number of different label values	f Kohavi,_Ron	пельниц пення гот ргосселиц реглозан регласу ана ресультану паотиватель.		uninum rock persons or processes.		the y mare occur and or occur as the morning on.				
consent	Consert of the data subject means any freely given, specific, informed and unambigoous indication of the data subjects wishes by which to ver due, by a unambigoous indication of the data subjects with the by which to very due to very due to the processing of personal data relating to him or her.	GDPR	Councir meas any freely given, specific, informed, and manipiguous inductions of the consumer, or the consumer, to the consumer, there consumer to refuse or the consumer, the consumer to the consumer, the consumer to the	CCPA							personal data
constituent system	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).										
constraint	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 enterprise								
construct validity	the degree to which the application of constructs to phenomena is warranted with respect to the research goals and questions.	Wieringa, _Roel_J.	Construct validation is involved whenever a test is to be interpreted as a measure of some attribute or quality which is not "operationally defined." The problem faced by the investigator is, "What constructs account for variance in test	cronbach_con struct_1955	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_measur ement_2023			
content validity		fink_survey_2 010	periormanicer	APA_content_ validity							
context	The context is the circumstances, purpose, and perspective under which an object is defined or used.		analysis and other mutuwarate statistical procedures. The immediate environment in which a function (or set of functions in a diagram) operates	IEEE_Soft_Vo	the interrelated conditions in which something exists or occurs.	Merriam- Webster_cont ext					
contextual learning	understands the source, relevance, and utility of data and inputs.	IEEE_Guide_I PA									
context-of-use	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.	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 services.	ISO_9241-11: 2018							
controllability	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)									
control class	(control group) the set of observations in an experiment or prospective study that do not receive the experimental freatment(s). These observations serve (a) as experimental freatment(s), these observations serve (a) as experimental freatment, (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.	nist_statistics _2012									
controller	establishing the natural experimental error. 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 final means of final means of the processing of the personal data; where the purposes and means of the processing of the personal data; where the purposes are indused of the processing of the personal data where the personal data of the personal data where the personal data of the pe	GDPR									personal data; processor

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definitio	n 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition [2] applicable
opilot	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 convensational 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									[4] applicable
orpus (corpora)	content generation in response. 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										
orrelation	In its most general sense correlation denoted the interdependence between quantitative or qualitative data. In this sense it would include the association of dichotomised attributes and the contingency of multiply-classified attributes.	OECD	The correlation coefficient of two random variables y_1, and y_2, denoted \rho (y_1,y_2) is: \rho(y_1,y_2) = \cov(y_1,y_2)/\sqrt(\var(y_1)^*\Var(y_2)) \rightarrow \rho (y_1,y_2) \rho (y_1,y_2) \rightarrow \rho (y_1,y_2) \rho (y_1,y_2) \rightarrow \rho (y_1,y_2) \	box_statistics _2005	s							
ounterfactual eplanation	Statements taking the form: Score p was returned because variables V had values (vI, vZ,) associated with them. If V instead had values (vI, vZ',) score p' would have been returned.	wachter_coun terfactual_201										
ounterfactual fairness	A fairnessmetric that checks whether a classifier produces the same result for	aime_measure	Given a predictive problem with fairness considerations, where A, X and Y	kusner_count	te							
		Google	represent the protected attributes, remaining attributes, and output of interest respectively, let us assume that we are given a cause model (U. V. P.), where V = A \times V									
ountermeasure	Actions, devices, procedures, techniques, or other measures that reduce the vulnerability of a system. Synonymous with security controls and safeguards.	SP800-37	Connect. $X = X$ and $X = X$, $Y = \{X_1, X_2 = X_1\} \cap Y_1 = X_2 = X_3 \cap Y_3 = Y_4 = X_4 = X_4 \cap Y_4 = X_4 =$	GWUC								safeguard; security control
criterion validity	examination that predicts who will do wen in granuace school has predictive validity. Concurrent validity is demonstrated when two assessments agree or a new measure is compared favorably with one that is already considered	fink_survey_2 010	an index of how well a test correlates with an established standard of comparison (i.e., a criterion). Criterion validity is divided into three types: predictive validity, concurrent validity, and ertospective validity. For example, if a measure of criminal behavior is valid, then it should be possible to use it to predict whether an individual (a) bile arrested in the future for a criminal violation, (b) is currently breaking the law, and (c) has a previous criminal record.	APA_criterion _validity	n							criterion- referenced validity; criterion-
crowdsource	valid. a type of participative online activity in which an individual, an institution, a non-profit organization, or company proposes to a group of individuals of varying knowledge, beterogeneity, and number, via a flexible open call, the voluntary undertailing of a task.	Enrique										related validity
customer	The beneficiary of the execution of an automated task, process, or service.	PA PA										
cybersecurity	Prevention of damage to, protection of, and restoration of computers, electronic communications systems, electronic communications services, whre communication, and electronic communication, including information contained therein, to ensure its availability, integrity, authentication, confidentiality, and nonrepudation.	SP800-37										
dark pattern	nonreposation. **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										
data	Characteristics or information, usually numerical, that are collected through observation.	OECD	re-interpretable representation of information in a formalized manner suitable for communication, interpretation or processing	aime_measure ment_2022, citing ISO/IEO TR 24029-1								
data analytics	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 natterns	f APA_data_ana lysis	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.	OECD								
data cleaning	Data Cleaning is the process of identifying, correcting, or removing inaccurate or corrupt data records	Ranschaert, Frik	, , , , , , , , , , , , , , , , , , , ,									
data control	management oversight of information policies for an organization's information;	Egnyte										
data dredging	management oversight of information policies for an organization's information; observing and reporting on how processes are working and managing issues. A statistical bias in which testing hape 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_Azu re_documenta tion										
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_ 2013										
	A data corpus, after the application of semantic mapping, relevant ontologies, and	d 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	n							
	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.		necessary to ensure data management within an organization	NIST_1500								
data mining	computational process that extracts patternsby analysing quantitative data from different perspectives and dimensions, categorizingthem, and summarizing	aime_measure ment_2022 citinig ISO/IEO 22989	the process of data analysis and information extraction from large amounts of datasets with machine learning, statistical approaches, and many others.	Ranschaert, _Erik								
data point	a discrete unit of information.	TechTarget da										
	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	ta_point										
lata proxy	Data that are closely related to and serve in place of data that are either	Comptroller_C										
	unobservable or immeasurable. degree to which the characteristics of data satisfy stated and implied needs when used under specified conditions			OECD								
	used under specified conditions	cab	- integrity; - nethodological soundness; - nethodological									
data science	Methodology for the synthesis of useful knowledge directly from data through a process of discovery or of hypothesis formulation and hypothesis testing.	NIST_1500	 quality awareness. Interdisciplinary science that uses statistics, algorithms, and other methods to extract meaningful and useful patterns from data sets—sometimes known as "big data." Today, machine learning is often used in this filed. Next to analysis of data, data science is also concerned with the capturing, preparation, and 	AI_Ethics_Ma k_Coeckelberr h	ar rg							artificial 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	Interpretation of data.									
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 to enrich deterministic relationships between data elements in a given information	IEEE_Guide_I PA										
data wrangling	critical octeriminate reactionships between data elements in a given into manori domain. process by which the data required by an application is identified, extracted, cleaned and integrated, to yield a data set that is suitable for exploration and analysis.	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	io .							
	within a given process. A point within a business process where the process flow can take one of several alternative paths, including recursive.	PA IEEE_Guide_I	controls which set of actions will result.	cab								
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 other lebals.	Reznik,_Leon										
decision-making	leaves represent the class labels. 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 desired solven leaving 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 relief with one prompt of the process produces a final choice, which relief to may not prompt	Wikipedia_Der ision-making	the cognitive process of choosing between two or more alternatives, ranging from the relatively clear cut (e.g., ordering a meal at a restaumal) to the complex (e.g., selecting a mack). Psychologists have adopted two converging strategies to understand decision making (s) statistical analysis of multiple decisions involving complex tasks and (b) experimental amanipulation of simple decisions, looking at the elements that recur within these decisions.	APA_decision making								

Terms	Definition 1	Citation 1[1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Le and synonyms de
decision support	a computer program application used to improve a company's decision-making	TechTarget_d									[2] ap
ysteni	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 system available (i.vel.) bring tegether data and knowledge usual reports and summaries. This is intended to help people make informed decisions.										
ecommission	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).	i. on_v1.0.0									
ductive analytics	Insights, reporting, and information answering the question, "What would likely happen IF" Deductive analytics evaluates causes and outcomes of possible future events.	IEEE_Guide_I PA									deductive reasoning
	strengths. 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 steps. Deep learning is currently the most widely used approach for applications such as visual object recognition, machine translation, speech recognition, speech expension, speech expension, speech real many solid mage synthesis; it also plays a similicant role in reinforcement bearings anolications.	Russell_and_N orvig	A form of machine learning that uses neural networks with several layers of 'neurons'; simple interconnected processing units that interact.	AI_Ethics_Mi k_Coeckelber h					Jan approach to AI that allows] Computers to learn from experience and understand the world in terms of a benezively of concepts, but head to concept defined through its relation to simpler concepts. By gathering knowledge from experience, this approach avoids the need for human operators to formally specify all the knowledge that the computer needs. The hierarchy of concepts enables the computer to learn complicated concepts by building them out of simpler ones. If we draw a graph showing how these concepts are built on top of och other, the graph is deep, with many layers.	deeplearningb ook_intro	
epfake	AI-generated or manipulated image, audio or video content that resembles existing persons, objects, places or other entities or events and	TTC6_Taxono my_Terminolo									
letion	Of an <x>, the action of destroying an instantiated <x>.</x></x>	gy IEEE_Soft_Vo									
denial-of-service	The prevention of authorized access to resources or the delaying of time-critical operations, (Time-critical may be millineconds or it maybe hours, depending upon the service provided).		resources or services.	CISA	when legituates users are unable to access information systems, devices, or their network resources due to the action of a maleious epite threat actor. Services affected may include email, websites, online accounts (e.g. hashing), of other services that very on the affected computer or network. A desial-of-service condition is accomplished by flooding the targeted host or network with traffic until the target cannot respond or simply crushes, perventing access for legitimate users. Do's tracks can cost an organization both time and money while their resources and services are interestable.	ST04-015					
ependability	<of an="" item=""> ability to perform as and when required (note 1: includes availability, relability, recoverability, maintainability, and maintenance support performance, and, in some cases, other characteristics such as durability, safety and security. Note 2: used as a collective term for the time-related quality characteristics of an item).</of>										
eployment	Phase of a project in which a system is put into operation and cutover issues are resolved	IEEE_Soft_Vo									
descriptive 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).	IEEE_Guide_I PA									
	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 answer or solution. The unknown components in a deterministic model are external to the model. It deals with the definitive outcomes as opposed to random results and doesn't make allowances for error.										
eveloper	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 within organizations or through external entities.	CSRC SP800-37	software life-cycle process.	IEEE_Soft_Vecab							
agnostic analytics	Insights, reporting, and information answering the question, "Why did something happen?" Diagnostic analytics determines information useful to understanding the cause(s) of an event(s).	IEEE_Guide_I PA									
agnostics	Pertaining to the detection and isolation of faults or failures	IEEE_Software	e e								
	determines the level of added noise. Englion is also known as the 'nrivary budget'		any subset of the output SSS if SMS satisfies: \begin[equation] Pr[M(D) \in S] \deg exp(\epsilon)*Pr[M(D) \in S] * \delta \end(equation) Furthermore, when \$\delta = 0\$ an absorithm M is said to guarantee \emph	gong_differer ial_2020							
ifferential validity	or "privacy parameter". Differential validity states that the validities in two applicant populations are unequal, that is, pi !" pa.	hunter_differe ntial_1979									
gital labor	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	s IEEE_Guide_I PA									
gital workforce	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									
imension	The collective suite of automation technologies delivering existing or new work output as applied in a business; the manifestation of digital abor. The dimension of an object is a topological measure of the size of its covering properties. Boughly speaking, it is the number of coordinates needed to specify a point on the object.	wolfram_math _2022	Distinct components that a multidimensional construct encompasses	IEEE_Soft_Ve							
mension reduction sparate impact	Dimensionality reduction is the process of taking data in a high dimensional space and mapping it into a new space whose dimensionality is much smaller For Predictor Y and Sensitive Impact S. Definition 6.2 Disparate Impact (Df) = $P\{Y^*=1\} S = 1/P\{Y^*=1\} S = $	Shalev- Shwartz,_Shai 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									
tributional bustness	Optimizing the predictive accuracy for a whole class of distributions instead of	Meinshausen,									
versity	just a single target distribution. the practice of including the many communities, identities, races, ethnicities, backgrounds, abilities, cultures, and beliefs of the American people, including underserved communities.	EO_DEIA_202									inclusion
cumentation	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 cab									
omain	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) protection needs.	SP800-160	<artificial intelligence=""> specific field of knowledgeor expertise</artificial>	aime_measur ment_2022, citing ISO/IE 2382	e C				
omain expertise	Domain expertise implies knowledge and understanding of the essential aspects	McCue_Collee				2382					
main shift	of a specific field of inquiry. Differences between the source and target domain data	n Stacke,_Karin									distributional shift
nking your own ampagne	The practice in which tech workers use their own product consistently to see how well it works and where improvements can be made.	kelley_dogfoo ding_2022									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.										aug.000
ge 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_dic tionary_2022									
abedding	the nignest of sowest end of a range of possione values or in extreme instantions. An embedding is perpresentation of a topological object, manifold, graph, field, etc. in a certain space in such a way that its connectivity or algebraic properties of plass and times, an embedding of a topological space preserves open sets, and a graph embedding for a topological space preserves open sets, and a graph embedding for the properties of the pro										
ulation	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. The use of a data processing system to imitate another data processing system,										
d event	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.	IEEE_Guide_I									
igineer	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 contrivance; 4: a person who runs or supervises an engine or										
	an apparatus. v. E to lay out, construct, or manage as an engineer.	"									

Terms	s Definition 1	Citation 1[1]	Definition 2	Citation 2	Definition 3 Citat	tion 3	Definition 4	Citation 4	Definition 5 Citation 5	Related terms and synonym	Legal s definition
nsemble	a machine learning paradigm where multiple models (often called "weak learners") are trained to solve the same problem and combined to get better results. The main proorthesis is that when weak models are correctly combined	Joseph_Rocca _Ensemble_m								[2]	applicabl
wironment	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									
uality of odds	subject system (Equalized odds). We say that a predictor bY satisfies equalized odds with respect		The ambability of a series in the ambitor should be below a series of a	Mehrabi.							
	to protected attribute A and outcome Y, if bY and A are independent conditional on Y.	_2016	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 groups should have equal rates for true positives and false positives.	_Ninareh							
quality of opportunity			7 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 rates.	Mehrabi, _Ninareh							
rror	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".	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 ment citin. Guid	e_measure nt_2022, ng ISO/IEC de 99					
rror propagation	the way in which uncertainties in the variables affect the uncertainty in the calculated results.	Dorf_2018								propgation of uncertainty; proprgation of	ıf
ethics	definition is a best of moral principles; a theory or system of moral where; definition it by inspirely of colonies growing inholdsules as growy, definition is better consistences of anni importance, definition is "s gooding indefinition in "s gooding indefinition in "s gooding in the state of the state	Merriam- Webster_ethic	In. I. the branch of philosophy that investigates both the content of moral judgments (i.e., what is right and what is wrong and their nature (i.e., whether such judgments should be combarded objective or subjective; The study of their first produced to the content of the co	APA_ethics							
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-sensitive design" and 'ethically aligned design."	AI_Ethics_Ma k_Coeckelberp h	processona etnes, research etnes. "etnear auj								
evaluation	(I) systematic determination of the extent to	aime_measrus ment_2022, citing ISO/IEC 24765								Test, Evaluation, Verification and Validation	n
example		Merriam- Webster_example	a							(11.77)	
exception	The or precept or to act as an exercise in the approximation of a true. An event that occurs during the performance of the process that causes a diversion from the normal flow of the process. Exceptions are generated by an unanticipated event within a process due to an undefined or unknown input, undefined or unexpected outcome, or unforescen 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							
experiment	a series of observations conducted under controlled conditions to study a relationship with the proper of drawing camal discreases show that relationships, the experiment snowless the manipulation of an independent relationship, the experiment snowless the manipulation of an independent participation and experiment of the conditions due to the conditions of a participation are one or of the conditions due rather. Handow and controls of participation are more of the conditions due rather. Handow are necessary in experiments.	apa_experime nt_2023	providing you'd performance information. A mily of a information ally placed prices so by the use of one or more computer systematically changed to assess their impact upon simulator originas systematically changed to assess their impact upon simulator originas systematically changed to assess their impact upon simulator originas repropries the simulation of the simulator reprotess are appropriately have their factors with intermediate levels and the scope, exceptablly the number of origin, original control originate prices as valide approach methods based on interpolators (expectably leging emerge as valide approach advanced interpolators) and interpolators (expectably leging emerge as valide approach and advanced interpolators) and interpolators (expectably leging emerge as valide approach emerge and emerge an	nist_statistics _2012							
expert system	for applying that knowledge. Machine-learning techniques are increasingly replacing hand coding.		Intelligent computer program that uses knowledge and inference procedures to sooke 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 inference procedures to solve problems that are difficult enough to require significant human expertise for their solution.	ZD	Computer system that provides for expertly solving problems in a given field or application area by drawing inferences from a knowledge base developed from human expertise.	IEEE_Soft_Vo cab	A computer system emulating the decision-making ability of a human expert NSCAI through the use of reasoning leveraging an encoding of domain-peopelic knowledge most commonly represented by sets of if-then rules rather than proceedure dose. The term 'expert system's was used largely during the 2070s and the contraction of the contract		
expertise	the result of a self-selection of a domain of knowledge that is mastered deliberately and for which there are clear benchmarks of success.	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_0	A characteristic of an AI system in which there is provision of accompanying evidence or reasons for system output in a manner that is meaningful or understandable to individual users, sia well as to developers and auditors/ and reflects the system's process for generating the output (e.g., what alternatives were considered, but not proposed, and why not.)	AI				interpretabilit	y
explainer	Functionality for providing details on or causes for fairness metric results.	Al_Fairness_3 60									
explanation	Systems deliver accompanying evidence or reason(s) for all outputs.	Draft	. The explanation principle obligates AI systems to supply evidence, support, or reasoning for each output.	NISTIR_8312							
exploratory	Exploratory Data Analysis (EDA) is an approachy philosophy for data analysis that employs a variety of techniquese (mostly graphical) to 1. maximize insight into a data set; 2. unover 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.	nist_statistics _2012									
	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									
acial recognition (FR)	Face recognition algorithms, however, have no built- in notion of a particular present. They are no that to dentify particular policy, instead they include a present. They are not have to dentify a recognition of the present to the activate of the present. The extractor projectly consists of a sent and servious fix the street for the present they are a small particular policy and the present to the present they are a small particular policy and the present to the present they are a small particular policy and the present the present they are a small particular policy and the present the present they are a small particular policy and the present the present they are a small particular policy and the present the case are it is compared to a threshold value to docked whether two samples are from, or a considerable present the present particular policy and the present particular policy and the present the present particular policy and the present particular policy and the present particular par										
lairness metric	internary intornancious societtu in a reasure vecasi (or tempulae). Aquantificacion of unwanteed bias in training data or models.	AI_Fairness_3 60	A mathematical definition of "fairness" that is measurable. Some commonly used fairness serties include: equilibred odds predictive partry counterfactual fairness demographic partry. Many fairness merries are mutually exclusive; see incomputability of fairness demographic partry.	google_glossa y_2023							
false negative	An example in which the predictive model mistakenly classifies an item as in the	NSCAI	metrics. an outcome where the model incorrectly predicts the negative class.	google_dev_c	A false negative is denying an applicant who should be approved Varsi	shney,	An instance in which a security tool intended to detect a particular threat fails	CSRC_false_n		Type II error	
	negative class.			assification- true-false- positive- negative	_Kus	ish	to do so. 2. Incorrectly classifying malicious activity as benign.	egative		(in statistics)	

Term		Citation 1 [1]		Citation 2		Citation 3		Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition [2] applicable
alse positive	An example in which the model mistalendy classifies an item as in the positive class		an outcome where the model incorrectly predicts the positive class.	google_dev_c assification- true-false- positive- negative	A failer positive is approving an applicant who should be denied	Varshney, _Kush	1.4.0 der that incorrectly indicate that an advandably is present. 2.4.0 and erth that incorrectly indicates that makes activity in occurring. 3. has indicate in which a security tool incorrectly disastine being content 5. has connected, scaling beings activity as indicated and activation of the Concrectly classified being incorrect and incorrectly classified being incorrectly for the concrectly classified being incorrectly for the concrectly classified being incorrectly incorrectly and incorrectly incorr	CSRC_false_p ositive			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										
favorable label	A label whose value corresponds to an outcome that provides an advantage to the recipient. The opposite is an unfavorable label.	AI_Fairness_3 60									
feature	An attribute containing information for predicting the label.	AI_Fairness_3 60									
feature extraction		khalid_feature _2014									
feature importance	a measure of the individual contribution of the corresponding feature for a particular classifier, restardless of the	saarela_featur e_2021									
feature shift	shape (e.g., linear or nonlinear relationship) or direction of the feature effect. Untiles point distribution will developed which cannot be caller which features will be considered to the considered to the considered of the con	kulinski_feature_2020									
federated learning	An approach to machine learning which addresses problems of data governance and privacy by training algorithms collaboratively without transferring the data to a central location. Each federated device trains on data locally and shares its local model parameters instead of sharing the training data. Different federated learning systems have different tooologies that involve different ways of	TTC6_Taxono my_Terminolo gy									
feedback loop	snaring parameters. 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, allowing it to learn from its mistakes.										closed-loop learning
fitting	Fitting is the process of verifying whether the data item value is in the previously specified interval.										
firmware	Computer programs and data stored in hardware - typically in read-only memory (ROM) or programmable read-only memory (ROM) - 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.	IEEE_Soft_Vo							
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 at completion and estimate to complete.	IEEE_Soft_Vo									
fraud detection	Monitoring the behavior of populations of users in order to estimate, detect, or avoid undesirable behavior.	Kou,_Yufeng	detecting and recognizing fraudulent activities as they enter systems and report them to a system manager.	Behdad							
fully autonomous	Accomplishes its assigned mission, within a defined scope, without human intervention while adapting to operational and environmental conditions Generative Adversarial Networks, or GANs for short, are an approach to	SP1011									
generative adversarial network (GAN)	Generative Adversarial Networks, or GANS for short, are an approach to generative modeling using deep harning methods, such as convolutional neural networks. Generative modeling is an unsupervised learning task in machine learning that involves automatically discovering and karning the regularities or patterns in input data in such a way that the model can be used to generate or organize new examples that plausible yould have been drawn from the original	Brownlee, _lason	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 (GANs) consist of two competing neural networks—a generation network that tries to create fast outputs (such as pictures), and a discrimination 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 itself off the other, reducing the need for big labeled training data.	NSCAI			
global	A global explanation produces a model that approximates the non-interpretable model.										
governance	The actions to ensure stakeholder needs, conditions, and options are evaluated to determine balanced, agreed-upon enterprise objectives, esting direction through prioritization and decision-making and monitoring performance and emplance against aggreed-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 system of lows, policies, frameworks, practices and processes as international and explanational levels. All poversances helps various statisheducts implement, manage, oversee and regulate the development, deployment and use of At technology, it also helps imaging associated risks to ensure Al aligns, with stakeholdiers' objectives, is developed and used responsibly and ethically, and complies with applicable legical art or regulatory requirement.	IAPP_Governa nce_Terms							
graph	Duggram that represents the variation of a variable 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 vertices (singular vertex), and E is a set of paired vertices, whose elements are called edges (sometimes links or lines).	wikipedia_gra ph_2023							
graphical processing unit (GPU)	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 reflicient parallel processing of arrays of values used in computer graphics. Modern-day GPUs are designed to be optimized for machine learning.	NSCAI									
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	aime_measure ment_2022, citing ISO/IEO 22989							
group fairness	The goal of groups defined by protected attributes receiving similar treatments	AI_Fairness_3									
hacker	Unauthorized user who attempts to or gains access to an information system.	Reznik,_Leon	Technically sophisticated computer enthusiast who uses his or her knowledge	IEEE_Soft_Vo							
hardware	Physical equipment used to process, store, or transmit computer programs or	IEEE_Soft_Vo	and means to gain unauthorized access to protected resources.	cab							
harm	data An undestired 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.										
harmful bias	probability of expected harms and the possibility of unexpected harms. Harmful bias can be either conscious or unconscious. Unconscious, also has one as implicit bias, involves associations outside conscious awareness that lead to a negative evaluation of a person on the basis of characteristics such as race, gender, sexual orientation, or physical ability. Discrimination is behavior; discriminatory actions perpetrated by individuals or institutions refer to inequilable treatment of members of certain social groups that results in social advantages or discrimination.	humphrey_adi ressing_2020	d								
human-assisted	advantages or disadvantages 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	SP1011									
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 3-01									
human-cognitive bias	Human-cognitive biases relate to how an individual or group perceives AI system information to make a decision or fill in missing information, or how humans	NIST_AI_RMF	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.								
	based observation of human operation of software systems capturing successful or unsuccessful operations to enable the creation of a useful predictive analytics capability.										
human-in-the-loop		DOD_Modelin g_and_Simula tion_Glossary									
human-machine teaming (HMT)	The ability of humans and Al systems to work together to undertake complex, evolving tasks in a variety of environments with seamless handoff both ways between human and Al team members. Areas of effort include developing effective policies for controlling human and machine initiatives, computing methods that ideally complement people, methods that optimize goals of teamwork, and designs that enhance human-Al interaction.	NSCAI		Poore_Lawrer ce_ARLIS_200 3-01							human-AI teaming
numan-operator- ntervention	The need for human interaction in a normally fully autonomous behavior due to some extenuating circumstances.	SP1011									

	Definition 1	Citation 1 [1]		Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal definition [2] applicable
human subjects	a living individual about whom an investigator (whether professional or student) conducting research: (i) Obtains information or biospeciment brough intervention or intervention with the individual, and uses, studies, or analyzes the information or biospecimens; or (ii) Obtains, uses, studies, analyzes, or generates information or destriblable biospecimens.	45_CFR_46_2 018_Requirem ents_ (2018_Commo									participant
uman system ntegration (HSI)	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.	ce_ARLIS_200									
	the parameters that are used to either configure a M. model (e.g., the penalty parameter C in a support vector machine, and the learning rate to train a neural network) 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).	2-01									
ypothesis testing	activation function and optimizer types in a neural network, and the kernel type in a support vector machine). A term used generally to refer to testing significance when specific alternatives	OECD									
mpact assessment	A term used generally to refer to testing significance when specific alternatives to the null hypothesis are considered, 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	Bipartisan_Po cy_Center_in pact_assessm	ii An evaluation process designed to identify, understand, document and mitigate the potential ethical, legal, economic and societal implications of an Ai system in a specific use case.	IAPP_Govern							
impersonation	this system's internded use, for whom could it full? A millicious individual is able to imprecisional a legitimate data subject to the data controller. The adversary forges a suild access request and goes through the controller. The data controller. The data controller is not a controller in the controller is not in the controller in the controller in the controller is not in the controller in the controller in the controller is not in control to wheeld out the solomation that you are seeking obtaining information lingsly which they then sell it is specified price in the solomation that is a specified price in the solomation in the controller in the controlle	nts Security_Anal sis_of_Subjec _Access	Y.								
ii processing	training, Model training processes could incorporate changes to the objective (cost) function or impose a new optimization constraint.	SP1270 AI_Fairness_3	remove discrimination during the model training process.	Mehrabi, _Ninareh							
in-processing algorithm incident		60		EDDAN WIN	on ollered horn or near horn event to people property or the environment	Al Incident E	Adverse exent(d) in a computer system or networks covered by a follows of a	Hasan_Raza			
incident response	a situation in which at systems caused, or nearly caused, rear-world name.	atabase AIID incident	the occurrence of a technical event that affects the integrity of a Product and/or Model.	FBFAIL_WIKI	where an AI system is implicated.	ditors	security mechanism, or an attempted or threatened breach of these mechanisms	Planali_Razza			
	a public official response to an incident from an entity (i.e. company, organization, individual) allegedly responsible for developing or deploying the AI or AI system involved in said incident.	_response									
independence	Of software quality assurance (SQA), situation in which SQA is free from technical, managerial, and financial influences, intentional or unintentional	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 8 is the probability of the occurrence of both A and 8 being equal to the product of the probabilities of A and 8 (n. 4/A and 8) = (A)(A) and 9)	nist_800_201	o in simple terms, inclusion is getting the mix to work together.						
	The goal of similar individuals receiving similar treatments or outcomes.	AI_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 Google					
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_ Draft									
information input component	One of the three components of a model. This component delivers assumptions and data to the model	Comptroller_0	0								
information security	preservation of confidentiality, integrity and availability of information; in addition, other properties, such as authenticity, accountability, non-repudiation, and reliability can also be involved.	ISO/IEC_TS_ 5723 2022(en)									
input	Data received from an external source	IEEE_Soft_Vo									
insider attack		IEEE_Caught_ in_the_Act									
in silico	carrying out some experiment by means of a computer simulation	Words_In_sili									computer simulation testing
instance	Discrete, bounded thing with an intrinsic, immutable, and unique identity. Individual occurrence of a type	IEEE_Soft_Vo	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
instance weight integrity	A numerical value that multiplies the contribution of a data point in a model.	Al_Fairness_3 60			The property whereby information an information system or a component of a	CISA	solutes property whereby data have not been altered in an unauthorized manner	ISO/IFC TS	the quality of moral consistency honesty and truthfulness with oneself and	APA integrity	
			Guarding against improper information modification or destruction, and includes ensuring information non-repudiation and authenticity.		The property whereby information, an information system, or a component of a system has not been modified or destroyed in an unauthorized manner.		since they were created, transmitted, or stored; <systems> property of accuracy and completeness</systems>	5723-2022(en)	the quality of moral consistency, honesty, and truthfulness with oneself and others.		
automation	A preconfigured software instance that combines business rules, experience- based context determination logic, and decision criteria to initiate and execute 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.	PA PA									
interaction	Action that takes place with the participation of the environment of the object.	IEEE_Soft_Vo									
internal validity	structure and its results can therefore be taken to represent the true nature of 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 relationships amone variables.										
interoperability	The ability of software or hardware systems or components to operate together successfully with minimal effort by end user	SP1011	Degree to which two or more systems, products or components can exchange information and use the information that has been exchanged.	IEEE_Soft_Ve	The ability for tools to work together in execution, communication, and data exchange under specific conditions.	NIST_1500					
interpretability	The ability to understand the value and accuracy of system output, interpretability refers to the extent to which as cause and effect can be observed within a system or to which what its going to happen given a change in input or algorithmic parameters can be predicted.	NSCAI	The ability to explain or to present an ML model's reasoning in understandable terms to a human	aime_measur ment_2022, citing Machin Learning Glossary by Google							explainability
	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	•								
intervenability	privacy relevant data processing[;] the data subjects themselves should be able to intervene with regards to the processing of their own data [to ensure] that data subjects have the ability to control how their data is processed and by	Covert_et_al									
knowledge	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	-artificial intelligence» abstracted informationabout objects, events, concepts or rules, their relationships and properties, organizedfor goal-oriented systematic use	aime_measur ment_2022, citinig ISO/IE 22989	2						
label	A value corresponding to an outcome.	AI_Fairness_3 60	target variable assigned to a sample	aime_measur ment_2022, citing ISO/IEI 22989							
label 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., $ps(x y) = pt(x y)$										
large language model (LLM)	a class of language models that use deep-learning algorithms and are trained on extremely large retural datasets that can be multiple results in its LLMs can make the models that coupts its can be a large to the models that coupts its can dea he are such as the amount of a specific to executing an easy on a specific topic. They are typically unsupervised or seni-supervised learning models that coupts benefit with the response its for agiven task Dictiminatory LLMs are supervised learning models that or active a training models that of the supervised learning models that or active a training to the supervised learning models that or active a training to the supervised learning models that or active a training to the supervised learning models that of the supervised learning models that the supervised learning models are trained as the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models are the supervised learning models and the supervised learning models are the supervised learning models and the supervised learning models are th	Al_Assurance 2022									language modei
anguage moses	regularities present in natural language and is used for making assumptions on previously unseen language fragments.	Gustavii,_Lixx									large language model (LLM)
learning	A procedure in artificial intelligence by which an artificial intelligence program	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 lowowledge activated from long-term memory.	APA_learning							

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
least privilege	The principle that a security architecture should be designed so that each entity	CSRC	The security objective of granting users only those accesses they need to	SP-800-12							[2] applicable
lemmatization	is granted the minimum system resources and authorizations that the entity needs to perform its function. the process of grouping together the different inflected forms of a word so they	Artasanchez_J	perform their official duties. In natural language processing,) working with words according to their root	Techopedia_le	grouping together words with the same root or lemma but with different	Techslang_lem					
	can be analyzed as a single item.	oshi_AI_with_ Python	in natural language processing(,) working with words according to their root lexical components	mmatization	inflections or derivatives of meaning so they can be analyzed as one item.	matization					
linear model	[a supervised learning algorithm that uses] a simple formula to find a best-fit line through a set of data points.	dataiku_ML_a nd_linear_mo dels	(linear) An operator L^{∞} is said to be linear if, for every pair of functions f and g and scalar t , $L^{\infty}(f^{*}g^{*}L^{\infty}fL^{\infty}g)$ $= L^{\infty}(f^{*}g^{*}L^{\infty}fL^{\infty}g)$ $= L^{\infty}(f^{*}g^{*}L^{\infty}fL^{\infty}g)$ $= L^{\infty}(f^{*}g^{*}L^{\infty}fL^{\infty}g)$	wolfram_math world_2022							
local	A local explanation explains a subset of decisions or is a per-decision explanation	NISTIR_8312_ Full									
localization	Creation of a national or specific regional version of a product.	IEEE_Soft_Vo									
logistic model	(logatic equation) The continuous version of the logatic model is described by the differential equation ($8h/k/3h/Nk/N/N/N/Nk/N/N/Nk/Nk/Nk/Nk/Nk/Nk/Nk/Nk$										
machine learning	The function x(t) is comertimes known as the sigmoid function. A branch of Articlaid Intelligence (A) that focuses on the development of system capable of learning from data to perform a task without being explicitly programment to perform that take. Learning refers to the process of optimizing model parameters through computational techniques such that the model's behaviour is optimized for the training task.	TTC6_Taxono my_Terminolo gy							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_O ffice	
machine observation	induce parameters unloggic componitional rectangues such that the induce's behaviour is optimized for the training task. 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.	IEEE_Guide_I									
	dependent mechanisms or processes essential to the purpose of the system.	Provide La		CISA							trojan horse
materiality	Hardware, firmware, or software that is intentionally included or inserted in a system for a harmful purpose. Refers to the significance of a matter in relation to a set of financial or	Reznik,_Leon OECD	unauthorized function or process.	CIAN							u opali IIOISC
	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 is likely to be of significance to a user of that information										
McNamara 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 or success. Also known as the quantitative failar.	McNamara_Fal lacy									quantitative fallacy
measurement	(Quantitative) (1) act to process of assigning a number or category to an entire text to describe an attribute of that entire), (2) assignment of numbers to objects in a systematic way to represent properties of the object, (5) use of objects to a systematic way to represent properties of the object, (6) use of artifact of a entire), (4) set of operations howget the object of determining a value of a measure; (6) assignment of values and labels to aspects of software engineering work products, processes, and resources plan the models that are derived from them, whether these models are developed using statistical or other techniques; (6) figure, extent, or amount objective to the software of the object text of the object	aime_measure ment_2022, citing ISO/IEC 24765	between individuals-groups and institutional and/or cultural contexts). (2) [approaches that] can make visible and unpick the mechanisms which link particular variables, by looking at the explanations, or accounts, provided by those involved.	Leavy_OHQR_ Intro	Qualitative measurement engages research methods and rechniques to provide information about the nature of phenomenon, culturative methods are designed for systematic collection, enganization, description and interpretation of non-measurement generally asserved specisions about they, for whom, when, and how something its for its not) observed, whereas quantitative measurement answers questions about which of whom, when, and how concluding its for its not) observed, whereas quantitative measurement answers questions about which to observed. Emention asserted using qualitative measurement may include contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment of the contextual norms or meaning, socie-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are sometiment as a society of the contextual norms or meaning, society-cultural systems are society of the contextual norms or meaning, society of the contextual norms or meaning, society of the contextual norms or meaning, society or the contextual norms or the context	Hammarberg_ 2016_Busetto_ 2020	Documentation of assumptions and nethods used is a foundational element of distinctional content of a foundational content of content of the content of the content of the content of the phromenous and its content (fluence IA Cropper, 2003). When based on the phromenous and its content (fluence IA Cropper, 2003). When the content of th	Russell_2003_ Brannen_2005			
measurement method	generic description of a logical organization of operations used in a measurement	t aime_measure ment_2022, citing ISO/IEC	logical sequence of operations, described generically, usedin quantifying an attribute with respect to a specified scale	aime_measure ment_2022, citing ISO/IEC							
measurement model	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.	citing ISO/IEC Guide 99 I Little_2013	A statistical model that links unobservable theoretical constructs, operationalized as latent variables, and observable properties—i.e., data about the world	citing ISO/IEC 24765 1 jackman_oxfor							
measurability	ability to assess an attribute of an entity against a metric (note 1: "measurable" is	ISO/IEC_TS_ 5723/2022(en)	as ancies variables, and cooks table properties and, case about the room	u_2000							
membership inference	the adjective form of "measurability") given a machine learning model and a record, determining whether the record was used as part of the model's training dataset or not.	5723-2022(en)									
metadata	was used as part of the moders training dataset or not. 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	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, citing ISO/IEC 24765	access rights, and data volatility.						
minimization	One of the CVD Inservoid for audition, 20/1 to system generally regain large amounts of data. Every explositations must comply with the minimiza- port of the contraction of the contraction of the contraction principle under data protection law for using personal data. This means ensuring that any personal data is skeepaar, relevant and limited to what is necessary for the purposes for which it is processed. [] The default approach of data secretion is no designing and building it systems of not necessary for the properties of the contraction of the contraction of the contraction of the place risk management practices to ensure that data minimization requirement, and all relevant minimization techniques, are fully considered from the design phase, or, if all systems are bought or operated by third parties, as part of the recurrence process of the disputes.	imisation	a data, controller bould limit the collection of personal information to but is inderectly relevant and excessary to accomplial specified purpose. They should also retain the data only for as long as is necessary to fulfill that purpose. In other work, data controllers bould collect only be revented data they repail specified which is the controllers of the collection of the purposes for which they are processed for which is the concessory in relation to the purposes for which they are processed.	EDPS_data_mi							
mixed methods	In mixed methods, the researcher collects and analyzes both qualitative and quantitative data rigorously in response to research questions and bypocheses; integrates the two forems of data and their results congulates these procedures for conducting tensered who gives the provider to be logic and procedures for conducting the study, and frames these procedures within theory and publishosolty.	Creswell_Clark _mixed_meth ods	research in which the inquirer 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	philosophy. MLOps (machine learning operations) stands for the collection of techniques and tools for the deployment of ML models in production.	symeonidis_M									
model	A function that takes features as input and predicts labels as output.	AI_Fairness_3 60	A model is a formalised expression of a theory or the causal situation which is regarded as having generated observed data. In statistical analysis the model is expressed in the control of the control	OECD	A core component of an AI system used to make inferences from inputs in order to produce outputs. A model characterizes an input-to-output transformation to produce outputs. A model characterizes are input-to-output transformation and the contract of the	TTC6_Taxono my_Terminolo gy			A quantitative method, system, or approach that applies statistical, economic, financial, or mathematical theories, techniques, and assumptions to process in the control of the control o	Comptroller_O ffice	
model assertion	Model assertions are arbitrary functions over a model's input and output that indicate when errors may be occurring										
model card	short documents accompanying trained machine learning models that provide benchmarked evaluation in a variety of conditions, such as a recondifferent cultural, demographic, or phenotypic groups is e.g., race, geographic locution, see Plarpartic skin type and intersectional goods jue; e.g., ager and reac, or set and Plarpartic skin type that are relevant to the intended application domains. (They also disclose the context) in which under an intended to use und, details of the context in which under an intended to use und, detail of the context in which under an intended to use und, detail of the context in which under an intended to use und, detail of the context in which under a machine should be used, details of the context in which under a machine should be used, details of the context in which under a machine should be used.	Model_Cards_ for_Model_Re porting	A brief document that discloses information about an AI model, like explanations about intended use, performance metrics and benchmarked evaluation in various conditions, such as across different cultures, demographics or race.	IAPP_Governa nce_Terms							
model debugging model decay	Model debugging aims to diagnose a model's failures. Model decay depicts that the performance of the model is degrading over time	Jain_Saachi Navak, Pragati	1								
model editing	stodes decay depicts that the performance of the model is degrading over time	Mitchell,_Eric									
model extraction	Adversaries maliciously exploiting the query interface to steal the model. More precisely, in a model extraction attack, a good approximation of a sensitive or	Chandrasekara n,_Varun	•								model inversion; model stealing
model governance	proprietary model held by the server is extracted (i.e. learned) by a dishonest user who interacts with the server only via the query interface. 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 Usage, assign responsibilities and roles etc.	open_risk_202	2								mouer steaming
model inventory	to gazzanou itas Guittos tie processes no notice Developinera, suocie Validation and Model Visage, assign responsibilities and roles etc. in the context of Risk Management, [] a database/[management information system] developed for the purpose of aggregating quantitative model related information that is in use by a firm or organization.	-									
model overlay											
model risk	for model, data, or other known limitations. A model overlay is a type of override, model risk management encompasses governance and control mechanisms such as board and senior management oversight, policies and procedures, controls	ffice Fed_Reserve									
management model suite	as board and senior management oversight, policies and procedures, controls and compliance, and an appropriate incentive and organizational structure A group of models that work together.	Comptroller_C									
		ffice									

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5 Citation 5	and synonyms	ns definition
del training	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	ai_Model_Trai	process to determine or to improve the parameters of a machine learning model, based on a machine learning algorithm, by using training data	ment_2022,						[2]	applicab
	minimize a loss function over the prediction range	ning		citing ISO/IEC 22989							
del validation	the set of processes and activities intended to verify that models are performing as expected.	yields. io_model_vali		Open_Risk_M anual_model_ validation							
nitoring	Examination of the status of the activities of a supplier and of their results by the	IEEE_Soft_Vo	Continual checking, supervising, critically observing or determining the status in								
ral agency	acquirer or a third party. The capacity for moral action, reasoning, judgment, and decision making, as opposed to merely having moral consequences.	AI_Ethics_Mai k_Coeckelberg									
ral patiency	The moral standing of an entity in the sense of how that entity should be treated.	h Al_Ethics_Mar k_Coeckelberg									
ive Baves	The naive Bayes classifier is a Bayesian learning method that has been found to	h									
	be useful in many practical applications. It is called 'native' because it incorporates the simplifying assumption that attribute values are conditionally independent, given the classification of the instance. The naive Bayes classifier applies to learning tasks where each instance is described by a conjunction of attribute values and where the target function (it) can take on any value from some finite set?										
tural language ocessing	The field concerned with machines capable of processing, analysing, and generating human language, either spoken, written or signed.	TTC6_Taxono my Terminolo									
_	A model that, taking inspiration from the brain, is composed of layers (at least	gy aime_measure									
	one of which is hidden) consisting of simple connected units or neurons followed by nonlinearities	ment_2022, citing Machine Learnign Glossary by Google									
ondiscrimination	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: (f) people that are similar in terms non-protected characteristics should receive				the practice of treating people, companies, countries, etc. in the same way as others in order to be fair	Cambridge_Di ctionary non-			
			similar predictions, and (2) differences in predictions across groups of people can only be as large as justified by non-protected characteristics.				Out. La in Ord. I to Or. I ini	discrimination			
rmal flow	The intended flow of a process originating from a start event, continuing through all defined activities, and concluding successfully to its defined end event.	PA									
ormalization	Conceptual procedure in database design that removes redundancy in a complex database by establishing dependencies and relationships between database entities. Normalization reduces storage requirements and avoids database inconsistencies.	OECD		aime_measure ment_2022, citing Machine Learning Glossary by Google							
ective evidence	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)									
servation		poole mackwo	the careful, close examination of an object, process, or other phenomenon for the purpose of collecting data about it or drawing conclusions.	APA_observati							
fline learning		n Ben_Auffarth_ 2021									
nline learning	often loading the whole dataset into memory or in batches. fitting [one's] model incrementally as the data flows in (streaming data).	Ben_Auffarth_									
ntology	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 elements and systems and specify interfaces to independent, knowledge-based services for the purpose of enabling certain kinds of automated reasoning.	IEEE_Guide_I PA									
acity	The nature of some AI techniques whereby the inferential operations are	NSCAI	A description of some deep learning systems [that] take an input and provide an	Hutson, Matthew	When one or more features of an Al system, such as processes, the provenance	f TTC6_Taxono				black box; unexplainable	
	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.		output, but the calculations that occur in between are not easy for humans to interpret.	_mattnew	datasets, functions, output or behaviour are unavailable or incomprehensible to all stakeholders – usually an antonym for transparency.	my_rerminoid gy	0			unexplainable	
erationalization erator	Putting AI systems or related concepts into use so they can be measured. A role assumed by the person performing remote control or telecoperation, semi-	craon	Individual or organization that performs the operations of a system.	HEEF C-6- V-	Individual or organization that performs the operations of a system.	SP800-160					
	action assumed by the person personang remote control of eleoperation, semi- autonomous operations, or other human-in-the-loop types of operations an individual makes an active affirmative indication of choice via a user interface		mutvidual of organization data performs the operations of a system.	cab	individual or organization data performs the operations of a system.	31-800-100					
t-in	an individual makes an active affirmative indication of choice via a user interface signaling a desire to share their information with third parties.	Glossary								privacy; consent; opt- out	
-out	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_ Glossary								privacy; consent; opt-ii	-in
tcome	something that follows as a result or consequence	merriam_webs ter_outcome									
utlier	An outlier is a data point that is far from other points.	Russell_and_N orvig	An outlier is a data value that lies in the tail of the statistical distribution of a set of data values.	OECD	Values distant from mostother values. In machine learning, any of the following are outliers: Weights with high aboute values: Predicted values relatively far away from the actual values: Input data whose values are more than roughly 3 standard deviations fromthe meanOutliers often cause problems in model training. Clipping is one way of managingoutlers.	aime_measure ment_2022 citing Machine Learning Glossary by Goorle					
itput	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		gr.					
verfitting	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		Cab							
sckage	a folder with all the code and metadata needed to train and serve a machine learning model.	about_ML_pa ckages									
rametric	A learning model that summarizes data with a set of parameters of fixed size (independent of the number of training examples)	Russell_and_N orvig	i .								
rent process	A process that may contain one or more sub-processes, activities, and tasks.	IEEE_Guide_I PA									
rity	Bit(s) used to determine whether a block of data has been altered. Rationale: Term has been replaced by the term "parity bit".	NIST_CSRC_p arity	the quality or state of being equal or equivalent	Merriam- Webster_parit							
rticipation	engag[ing] multiple stakeholders in deliberative processes in order to achieve consensus.	Sloane_et_al_ 2020		у							
rticipant	A computer system, data, input, business rule, human intervention, and other	IEEE_Guide_I	a living individual about whom an investigator (whether professional or student)	45_CFR_46_2						human subject	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 ents_ (2018 Commo							
	A passive learning agent has a fixed policy that determines its behavior. An active										

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 and synonyms	Legal definition
personal data	Thereand that means may information relating to an interesting of the controlled intuiting person (see the subject, as interesting the controlled person (see the subject, as interesting the controlled person (see the subject and the information of the informat	COPR	In Proceedial electrication," mean in determinent that identifier, relates to, described were recognised to the processor of the confidence of the confidenc	r ·							2	applicable
policy	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 POLYT.	law_policy_20 23	A policy defines the learning agent's way of behaving at a given time	sutton_reinfo cement_2018	r							
positionality	the researcher's starting points and standpoints before and during inquiry, as well as the conditions shaping the research situation, process and product	Charmaz_Hen									reflexivity	
post-hoc explanation	text explanations, visual explanations, local explanations, explanations by example, explanations by simplification and feature relevance explanations techniques. Each of these techniques covers one of the most common ways humans explain systems and processes by themselves.	NISTIR_8312_ Full	not hoc explainability targets models that are not resulty inter- pretable by design by recording of whose means to enhance their in expressions, used as text explanations, visual explanations, local explanations, explanations by simplification and feature relevance explanations techniques. Each of these techniques covers one of the most common ways humans explain systems and processes by themselves.		a.							
post-processing	Typically performed with the help of a holdout dataset (data not used in the training of the model). Here, the examen model is transle as a based hos 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.	SP1270	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 a black box without any ability to modify the training data or learning algorithm, then only post-processing can be used in which the labels assigned by the dischool model initially get reassigned based on a function during the post-processing hase.	Mehrabi, _Ninareh	Steps performed after a machine learning model has been run to adjust its output. This can include adjusting a model's output or using a holded to determine the adjust its output. This can include adjusting a model's output or using a holded to data not used in the training of the model—to create a function run on the model's predictions to improve fairness or meet business requirements.	IAPP_Governa set - nce_Terms						
post-processing algorithm	A bias mitigation algorithm that is applied to predicted labels.	AI_Fairness_3 60										
practical significance	a conceptual framework for estuarting discrimination cases developed primarily on statistical evidence that the subject of increasing interest and discussion by some in the equal employment opportunity (IECO) field.										statistical significance (often paired in contrast to this); substantive significance (synonym)	
pre-processing algorithm	A bias mitigation algorithm that is applied to training data.	AI_Fairness_3 60										
precision	A metric for classification models. Precision identifies the frequency with which a model was correct when classifying the positive class.		closeness of agreement between inductions or measuredquantity values obtained by regliciate measurements on the same or similaredgives under specified conditions	aime_measur ment_2022, citing ISO/IEO Guide 99	A metric for classification models. Precision identifies the frequency with we model was correct when predictingthe positive class. That is Precision = Tru Positive/(True Positive + False Positive)	cich a alme_measure ment_2022, citing Machine Learning Glossary by Google	Chomeso of agreement between independent test results obtained under presented conditions, it is generally dependent on analyte concentration, and this dependence should be determined and documented. The measure of precision is usually presented internal of practices and computed in a present of the control of the precision is usual presented in terms of imposition and computed in a larger standard decision. Independent out to results means results obtained in a matter on influenced up any previous results on the use or stallard metal-II Precision covers repentability and reproducefully [8]. Morentarbely, precision is a neutre of the reproducefully of measurements whilm as etch in it, of the sucretor of distribution of random errors and does not relate to the true value or specified value.	UNODC_Gloss ary_QA_GLP				
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_measur 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 Guide_I										
predictive analytics	Insights, reporting, and information answering the question, "What is likely to happen?" Predictive analytics support high confidence foretelling of future event (s).	IEEE_Guide_I PA										
preprocessing	method can be used if a modeling pipeline is allowed to modify the training data.	SP1270										
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/IEO TR 24029-1								
	Embedding privacy measures and privacy enhancing technologies directly into the design of information technologies and systems.										data- protection-by- design (def., https://eur- lex.curops. cu/legal- content/EN/T XT/2 uris/CELEX% 2A0201680679 2- 20160548014- 132248683434 13	i
	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.											
privileged protected attribute	A value of a protected attribute indicating a group that has historically been at	AI_Fairness_3 60										
procedure	Information item that presents an ordered series of steps to perform a process, activity, or task.	IEEE_Soft_Vo										
process	Information item that presents an ordered series of steps to perform a process, activity, or task. A sequence of 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 senantics, to Process levels will generally follow structure at the capability maturity model integration (CMMI) level.	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 intended to be performed, including all exceptions.	IEEE_Guide_I PA										

Terms	Definition 1	Citation 1 [1]		Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms Legal and synonyms definition [2] applicable
processing	Processing/means any operation or set of operations which is performed on personal data or on sets of personal data, whether or not by automated means, such as collection, recording, organization, structuring storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, influentiation or otherwise making available, alignment or combination, retrieval, restauct or constitution, retrieval, or ensure or	GDPR	*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		Law_Insider_j rocessing_env									
processor	'Processor' means a natural or legal person, public authority, agency or other body which processes personal data on behalf of the controller.	ronment GDPR	personal information or on sets of personal information, whether or not by	CCPA							personal data; processing
product manager	a specialized product management professional whose job is to manage the planning, development, launch, and success of products/solutions powered by Al, machine learning, and deep learning technologies. The group who life focused on providing direction and prioritization for the cross-	productmanag erHQ_Josh_Fe chter Forbes_Tracy									controller
productization	Intentional 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. [turning the best performing model] into an actual "data product," ready to be	_mmp									
	used in live services.	uctizing	The fills of a constant of a standard and a standar	CCDA	Vicinity by the state of an and about the boards to be	cenc					
	uses in in veserves. Profiling means any form of automated processing of personal data consisting of the use of personal data to evaluate certain personal aspects relating to a natural personal personal personal appears and the personal		"rodiling" means any form of automated processing of personal information, as further defended by regulations pressured to paragraph (190 of solubidation (a) of Section 1981.8%, to evaluate certain personal superior relating to a natural person and in particular to an analyze or predict angeless concerning that natural persons performance at work; economic situation, health, personal preferences, interests, recibidity, Schenico, location, or noneutron of the contraction of the contra	ССРА	Measuring the characteristics of expected activity so that changes to it can be more easily identified.	CSRC					personal data; processing
protected attribute	attributes are not universal, but are application specific	AI_Fairness_3 60									
protected class		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.	_protected_c ass							
prototype	A prototype is an original model constructed to include all the technical characteristics and performances of the new product	OECD									
proxy	The granting of access rights and executional privilege to an agent (human or machine) within an application(s) or system(s). A variable that can stand in for another, usually not directly observable or	PA SP1270									
pseudo-anonymization	measurable, variable. 'Pseudonymisation' means the processing of personal data in such a manner that	GDPR	"Pseudonymize" or "Pseudonymization" means the processing of personal	CCPA	A data management technique to strip identifiers linking data to an individual.	NSCAT					personal data;
(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 nor attributed to an identified or identifiable consumer.		A time mining that is the time part of a rep white and a state of an internal man.	N.S.					processing
quanty	The totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs.		<data> degree to which the characteristics of data satisfy stated and implied needs when used under specified conditions; <systems a="" degree="" of<br="" set="" to="" which="">inherent characteristics of an object fulfils requirements (an object can be a product, process or service)</systems></data>	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										
ranking	a type of machine learning that sorts data in a relevant order[; often used by companies] to optimize search and recommendations.	DEV_ranking		Merriam- Webster_rank ng							
recall	A metric for classification models; identifies the frequency with which a model correctly classifies the true positive items.		Recall = True Positive/(True Positive + false Negative)	ment_2022, citing Machine Learning Glossary by Google							
recognition	classifying the data into different categories.	achine_Learni	a sense of awareness and familiarity experienced when one encounters people, events, or objects that have been encountered before or when one comes upon material that has been learned in the past.	APA_recognition	to transfer prior learning or past experience to current consciousness: that is, to retrieve and reproduce information; to remember.	APA_recall					
recommendation system	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	ng 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 muste, books or movies) or social element (e.g. people or group) they had not yet considered, using a model batt from the characteristics of an item (sontent based approaches) or the user's social environment (collaborate filtering approaches)	Sharma,_Lalit.							
rectification	An individual's right to have personal data about them corrected or amended by a business or other organization if it is inaccurate.	a IAPP_Privacy_ Glossary	· · · · · · · · · · · · · · · · · · ·								
red-team	A group of people authorized and organized to emulate a potential adversary's attack or exploitation capabilities against an enterprise's security souture. The 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									
reference 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.	erence_class									
reflexivity	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	Jamieson_Gov aart_Pownall	in qualitative 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 conduct.	APA_reflexivit							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, subcategory of supervised learning.	s Ranschaert, _Erik	the prediction of an exact value using a given set of data	Saleh_Alkhalif _ML_in_Biote ch							
reinforcement learning	A nethod of training algorithms to make suitable actions by maximizing researched behavior over the course of its actions. This type of learning can take place in simulated environments, such as game-playing, which reduces the need for real-world data.	NSCAI	Reinforcement learning (RL) is a subset of machine learning that allows an artificial system (cometimes referred to as an agent) in a given environment to optimize its behavior. Agenta learn from feetback significance received as a result of received reward. Such signals are computed based on a given reward function, which constitutes an abstract representation of the system's post The gold could be, for example, to earn a high video game score or to minimize side worker time in a factory.	TTC6_Taxono my_Terminolo gy							
reliability	Reliability refers to the closeness of the initial 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 separism definition. The time interval duration can be expressed in units appropriate to the item concerned (e.g. calendar time, operating cycles, distance run, etc.) and the units should always be clearly stated, repeating cycles, distance run etc.) and the units should always be clearly stated repeating cycles, distance run etc.) and remains a condition reliability, such as mode of operation, stress levels, environmental conditions, and maintenance.	ISO/IEC_TS_ 5723-2022(en)	property of consistentimended behaviour and results	aime_measur ment_2022, citing ISO/IE 22989	re C				
remediation	The process of treating data by cleaning, organizing, and nigrating it to a safe and secure enrolmment for optimized usage is called that remediation. Generally (understood) as a process involving deleting unnecessary or unused data. However, the actual process. In view ydeatled and includes several steps, including replacing, updating, or modifying data along with cleaning it, organizin, it, and getting rid of unnecessary date.	CPO_Magazin e_Amar_Kana garaj g									
reproducibility	Closeness of the agreement between the results of measurements of the same measurand carried out under changed conditions of measurement.	IEEE_Soft_Vo cab									
requirement	something essential to the existence or occurrence of something else : CONDITION	Merriam- Webster_requ rement									
residual	Residuals are differences between the one-step-predicted output from the mode and the measured output from the validation data set. Thus, residuals represent the portion of the validation data not explained by the model.	esidual									
resilience			«governance» ability to anticipate and adapt to, resist, or quickly recover from a potentially disruptive event, whether natural or man-made; system: capability of a system to maintain its functions and structure in the face of internal and external change, and to degrade gracefully when this is necessary	ISO/IEC_TS_ 5723/2022(en)	ability of a system to recover operational conditionquickly following an incident	aime_measur ment_2022, citing ISO/IE 22989	re C				
responsible AI	An AI system that aligns development and behavior to goals and values. This includes developing and fielding AI technology in a manner that is consistent with democratic values.	NSCAI IEEE Guide I									
result	The consequential outcome of completing a process.	PΔ									
execution mine	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).	work_Security _2011									

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
risk	The composite measure of an event's probability of occurring and the magnitude	NIST AL RMF	A measure of the extent to which an entity is threatened by a notential	SP800-12	An uncertain event or condition that, if it occurs, has a positive or negative effect	IEEE Soft Vo	effect of uncertainty on objectives	ISO_IEC_3850			[2] applicable
	The composite measure of an event's probability of occurring and the magnitude or degree of the consequences of the corresponding event. The impacts, or consequences, of Al systems can be positive, regative, or both and can result in opportunities or threats (Adapted from: iso 31000:2018)	_10	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.	000 1.	on a project's objectives	cab	was an amount of the Salphants of	7			
risk control	mechanisms at the design, implementation, and evaluation stages (that can be taken) into consideration when developing responsible. Al for organizations that includes security risks (eyber intrusion risks, privacy risks, and open source software risks, comomic risks (e.g., job displacement risks), and performance risks (e.g., risk of errors and bias and risk of black box, and risk of explainability).	Toward_an_u nderstanding_ of_responsible _artificial_inte lligence_pract ces									
	Risk tolerance refers to the organization's or AI actor's readiness to bear the risk in order to achieve its objectives. Risk tolerance can be influenced by legal or regulatory requirements.										
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 world-low	IEEE_Guide_I PA									
robotic process automation (RPA)	A preconfigured software instance that uses business rules and predefined activity choreography to complete the autonomous execution of a combination of processes, activities, transactions, and tasks in one or more unrelated software sostems to deliver a result or expise with human expension management.	IEEE_Guide_I 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.	n NSCAI									
robustness	to resumence with it courses to anversarian actors on at components. ability of a system to maintain its level of performance under a variety of circumstances	ISO/IEC_TS_ 5723/2022(en)	The ability of a machine learning model/algorithm to maintain correct and reliable performance under different conditions (e.g., unseen, noisy, or adversarially manipulated data).	NISTIR_8269_ Draft							
root-mean-square	of an estimator of a parameterf: 1 the square-root of the mean squared error	Glossary_of_S	a frequently used measure of the differences between values (sample or population values) predicted by a model or an estimator and the values observed	Wikipedia_RM							root-mean-
	The RMSE of an estimator is a measure of the expected error of the estimator. The units of RMSE are the same as the units of the estimator.	ms		SD							square error (RMSE)
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 _lason_Brown lee									
safety		ISO/IEC_TS_ 5723/2022(en)	freedom from risk which is not tolerable	aime_measure ment_2022,							
scalability	[sasety involves required in the pronounity of expected narms and the possibility of unexpected harms]. The ability to increase or decrease the computational resources required to execute a varying volume of tasks, processes, or services.	IEEE_Guide_I		citinig ISO/IE/ TR 24029-1							
score		Al_Fairness_3									
screen out	resums in a predicted label. Screen-out discrimination occurs when "a disability prevents a job applicant or employee from meeting—or lowers their performance on—a selection criterion, and the applicant or amplious loser a lob————————————————————————————————————										
security	anu une apparaant or emproyee toses a joo opportunity as a result." resistance to intentional, unauthorized act(s) designed to cause harm or damage to a system	ISO/IEC_TS_ 5723/2022(en)	degree to which a product or system (3.38)protects information (3.20) and data (3.11) so that persons or other productor systems have the degree of data access appropriate to their types and levels of authorization	aime_measure ment_2022, citing ISO/IFF							
segmentation	The process of identifying homogeneous subgroups within a data table.	Raynor		citing ISO/IEC TR 24029-1							
self-aware system	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 purpose.	IEEE_Guide_I PA s									
self-diagnosis	Ability of a system to adequately take measurement information from sensors, validate the data, and communicate the processes and results to other devices	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 normalcy.	IEEE_Guide_I PA									
semantic mapping	A strategic schema or framework of metadata labels applied to all data, data groups, data fields, data types, or data content used to introduce new or raw data into a corpus or data fabric to give machine learning algorithms direction for investigating known or potential relationships between data. A semantic map	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									
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 (OCR).	IEEE_Guide_I PA									
service	A collection of coordinated processes that takes one or more kinds of input, performs a value-added transformation, and creates an output that fulfills the peads of a customer for charabolder.	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	Techniques that separate the process of feature extraction from learning itself.	Reznik,_Leon									
	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.										
			system that includes a combination of technical and human or natural elements	ISO/IEC_TS_ 5723:2022(en)							
	the results are observed or recorded, and an evaluation is made of some aspect of the system or component.	f cab Dave_Salvator									
specification		_sparsity SP800-37									
aparatication	requirements, design, behavior, or other characteristics of a system or component and often the procedures for determining whether these provisions have been satisfied.										
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 cab	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									
start event	An activity, task, or input that describes or defines the beginning of a process.	IEEE_Guide_I PA									
statistical bias	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.	SP1270									
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 1 error]; also represents a rejection of the null hypothesis.	Statistics_in_l lain_English	Prefers to whether a relationship between two or more variables exists beyond a probability expected by chance	The_SAGE_Er cyclopedia_of _Communicat on_Research_ Methods							
statistics	Numerical data relating to an aggregate of individuals; the science of collecting, analysing and interpreting such data	OECD		Methods							
stereotype	Numerical data relating to an aggregate of individuals; the science of collecting, analysing and interpreting such data an analysing and interpreting such data as at of cognitive generalizations (e.g., beliefs, expectations) about the qualifiest and characteristics of the members of a group or social category. Stereotypies, like schemas, simplify and expedite perceptions and judgments, but relation are of the enaughered and positive, and resistant to revision even when perceiven encounter individuals with qualities that are not congiuent with the stereotype.	APA_stereotype	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 stereotype. 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									
straight-through processing (STP)	The successful execution of a service, process, or transaction performed entirely through traditional application platforms with predefined interfaces (i.e., application programming interfaces [APIs]).	IEEE_Guide_I PA									
p. Acamig (511)	application programming interfaces [APIs]).										

Term	s Definition 1	Citation 1 [1]	Definition 2 Cita	ation 2	Definition 3 Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms	Legal
strawperson	a fallacious argument which irrelevantly attacks a position that appears similar to									and synonyms [2]	definition applicable
strawperson	a tauacious argument wincin irreevanity 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 nking									
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									
structured data sub-process	Data that has a predefined data model or is organized in a predefined way.	NIST_1500 IEEE Guide I									
supervised learning	A suportimate process that can be included within a parent process. It can be present and/or repeated within other parent processes. A type of machine learning in which the algorithm compares its outputs with the	PA		rnik 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				
	correct outputs during training. In unsupervised learning, the algorithm merely looks for patterns in a set of data.		desired outputs.		or a computer to process as er of onle winous crimitors have need nineed into two groups and define a relationship between the values of one and the values of respectively. In tatastical reminology, they are called independent and dependent variables. Respectively. The darraing is 'supervised because the distinction between the predictors and the target variables is chosen by the investigator or some other outside agency.	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				
support vector machines	width of the gap between the points of separate categories in feature space.	Ranschaert, _Erik									
system	combination of interacting elements organized to achieve one or more stated	ISO/IEC_TS_ 5723:2022(en)									
systemic bias	Systemic bissues result from procedures and practices of particular institutions that operate in ways with result in certain cold groups being advantaged or florest and others being disabilitating or devalued. This need not be the result call to the cold of the contract	n. Oxford University Press, Jan. 2011 publication Title: A Dictionary of Media and Communication									
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)	ISO/IEC_TS_ 5723:2022(en)									
target		TechTarget_ta rget_function								target variable, target value	
task	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 cab	E_Soft_Vo	set of activities undertaken in order to achieve a specific ment_2022, citing ISO/IEC TE 24030						
taxonomy	Taxonomy refers to classification according to presumed natural relationships among types and their subtypes.				10.24000						
technical control	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									
technochauvinism	the system. The belief that technology is always the solution	M. Broussard, Artificial								techno- solutionism	
		Unintelligence How Computers Misunderstand the World. MIT Press, 2018.								on the same of the	
test	phenomenon, process or service according to a specified procedure.			lliam_Hetze	(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) set (1) graph (50/IEC of one or more test cases and procedures.	the process of executing a program with the intent of finding errors.	The_Art_of_S oftware_Testi ng			Test, Evaluation, Verification and Validation (TEVV)	
Test and Evaluation, Verification and Validation (TEVV)	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.	NSCAI_Report									
third party	requirements, and that it is sufficient for its intended use. 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									
three lines of defense	we might incorporate into this certainton. Most financial institutions follow a three-lines-of-defense model, which 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	Additive to trace the history, application or location of an entity by means of recorded identification. [Chain of custody' is a related term, Jahternatively, traceability is a poperty of the result of a measurement or the value of a standard whereby it can be related with a stated uncertainty, to stated extensively and the related with a stated uncertainty, to stated references, usually attendard or international standards, it, termoghan unbroken chain of comparisons, in this context, The standards referred to here are measurement standards rather than written standards.	UNODC_Gloss ary_QA_GLP	A characteristic of an Augustum enabling a person to understand the technology, SSC development processes, and operational capabilities (e.g., with transparent and audituable methodologies along with documented data sources and design procedures).	CAI							
training data	A dataset from which a model is learned.	AI_Fairness_3 60	samples for training used to fit a machine learningmodel aim men citie 2299	ne_measure nt_2022, ing ISO/IEC							
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 across all participants.	IEEE_Guide_I PA									
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, comprehenive, accessible, clear and understandable presentation of information; systems» property of a system or process to imply openness and accountability 	ISO/IEC_TS_ 57232022(en)	Understanding the working logic of the model. NSS Deal	STTR_8269_ aft	regulation property of an organization that appropriate activities and decisions are commiscated orientess tashedories (2.5.13) as comprehensive, accessible and understandable manner accessible and understandable manner with the comprehensive accessible and the comprehensive accessible accessible and the comprehensive accessible accessibl	sostems property of a system that appropriate information about the system is made available to releast stakeholders (33.31). Note 1 to entry, Appropriate information for system transparency can include appects such as features, performance, initiations, components, procedures, measures, design goals, design choices and assumptions, data sources and labeling protocols. Note 2 to entry, Inappropriate disclosure of some aspects of a system can violate security, privacy or confidentially requirements.	iso_22989_20 22				
true negative	outcome where the model correctly predicts the negative class.	google_dev_c assification- true-false- positive- negative									
true positive	an outcome where the model correctly predicts the positive class.	google_dev_ci assification- true-false- positive- negative									
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.		citir TR 2	ne_measure nt_2022, ing ISO/IEC 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, inserity, and availability of the information being processed, stored, or transmitted by the system across the full range of threats and individually privacy.	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.	800-160	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.						

Term	s Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3 Citatio	ion 3	Definition 4	Citation 4	Definition 5 Citation 5		ms definition
rustworthy AI	Characteristics of transversity. All yearens relate, salds and relates, sectors and realisest, accontantle and transparent, explainable and interpretable, policy-evaluated, and fair with baseful face ranaged.	NIST_AI_RMF _10	Trustworthy AI has there components (I) is should be lawful, ensuring compliance with all applicable leavs and regulations (I) is should be lexical, demonstrating respect for, and ensure adherence to, ethical principles and to the control for broke. Mol from a technical and social perspective, where and (I) is those the robust. Mol from a technical and social perspective, systems on cause unintentional harm. Trustworthy AI concerns not only the trustworthines of the Aysems Hoeff but also comprises the trustworthiness of all processes and actors that are part of the system's life of the System's Hoeff in the S	european_ethi cs_2019		_Taxonom minology				[2]	applicable
ype 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]	berthold_guid e_2020	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										
underfitting	Underfitting occurs when a statistical model cannot adequately capture the underlying structure of the data.	Ranschaert, _Erik									
underrepresentation	inadequately represented. (See note.)	Merriam- Webster_underrepresented	when members of discernible groups are not consistently present in e 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_ Unexplainabili V								black box; opacity	
unstructured data	Data that does not have a predefined data model or is not organized in a predefined way										
unsupervised learning	A learning strategy that consists in observing and analyzing different entitles and determining that some of their subsets can be grouped into certain classes, without any correctness test being performed on acquired knowledge through feedback 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.	iso_2382_1997									
usability	entert to which a system product or service can be used by specified users to adhere especified pass' with effectiveness, efficiency and sandaction is decisive especified pass' with effectiveness, efficiency and sandaction is entered to the particular conditionation of users, goals and content of user for which addition is being considered note. 22 used a significant porter to the design and content of the efficiency of th	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 takes 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							
user-centered design	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	Vredenburg, L_Karel	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.	ary_QA_GLP	for a specific intended use or application have been fulfilled.	IEEE_Soft_Vo	provides objective evidence that the capability provided by the system complex with stakeholder performance requirements, achieving its use in its intended operational environment; answers the question. 'Is it the right solution to the problem'? [Cysnests of evaluating the operational effectiveness, operational suitability, sustainability, and survivability of the system or system elements under operational Presidence.	_TEVV	A continuous monitoring of the process of compilation and of the results of this process.	OECD		Test and Evaluation, Verification and Validati (TEVV)	
value sensitive design	a theoretically grounded approach to the design of technology that accounts for human values in a principled and systematic manner throughout the design process.	Friedman_et_ 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.	OECD	Quantity or data item whose value can change	IEEE_Soft_Vo cab							
uriance	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		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						Test and Evaluation, Verification and Validati (TEVV)	MA.
word embedding	a popular framework to represent text data as vectors which has been used in many machine learning and natural language processing takes A word embedding, trained on word co-occurrence in text coppora, represents each word for common phrasely was a d-dienseional word vector w-2 Rel t serves as a decionary of sorts for computer programs that would like to use word meaning First, words with similar semantic meanings tent do have vectors that are close together. Second, the vector offirences between words in embeddings have been shown to represent relationships between words.	Bolukbasi_et_ al_Debiasing_ Word_Embed- ings									

ID	Title of article, chapter, or page Regulation (EU) 2018/6/87 of the European Parliament and of the Council of 27 April 2016 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 49/46/EC (General Data	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volum	e Issue	Page(s)	Year	URL
GDPR	Protection Regulation)							https://eur-lex.europa.eu/eli/reg/2016/679/oj
CCPA	California Consumer Privacy Act of 2018 What is an Al incident?	Al Incident Database	Al Incident Database					https://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?division=3.∂=4.&lawCode=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 Shubhendu, Shukla S. and Jaiswal Vijay	Al Incident Database International Journal of Scientific Engineering and Research (USER)			28-35	2022	https://incidentdatabase.ai/research/1-criteria https://www.iiser.in/archives/vli1/MDExMzASMTUpdf
Raynor	Applicability of Artificial intelligence in Different Fields of Life Glossary of Computer System Software Development Terminology	Snubnendu, Snukia S. and Jaiswai Vijay Ravnor William I. Ir.	The International Dictionary of Artificial Intelligence	1	1	28-35	2013	https://archive.org/details/internationaldic0000rayn
Al Fairness 360	Glossary of Computer System Software Development Terminology Glossary	Raynor, William J., Jr. Al Fairness 260	The International Dictionary of Artificial Intelligence Al Fairness 360				1999	https://archive.org/details/internationaldic0000rayn https://aif360.myhluemiy.net/resources#olossary
Ai_Fairness_360 Mitchell. Tom	Machine Learning	Ai Fairness 360 Mitchell. Tom	Machine Learning				1997	http://www.cs.cmu.edu/-tom/mlbook.html
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Hutson,_Matthew	Al Glossary: Artificial intelligence, in so many words	Hutson, Matthew	Science	357	6346	19	2017	https://www.science.org/doi/10.1126/science.357.6346.19
FBPML_Wiki	Definitions	Foundation for Best Practices in Machine Learning	FBPML Wiki					https://wiki.fbpmlorg/wiki/Definitions
IAPP_Privacy_Glossary	Glossary of Privacy Terms							https://iapp.org/resources/glossary/
IAPP_Governance_Terms	Glossary of Governance Terms							
			Intelligent Security Systems: How Artificial Intelligence, Machine Learning and Data					
Reznik,_Leon	Introduction I.5 Glossary of Basic Terms	Reznik, Leon	Science Work for and Against Computer Security			xv-xxiv	2022	
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SP1011	Autonomy Levels for Unmanned Systems (ALFUS) Framework	Autonomy Levels for Unmanned Systems Working Group Participants	NIST Special Publication 1011				2008	https://www.nist.stov/system/files/documents/el/isd/ks/NISTSP 1011-1-2-0.pdf
Gartner	Gartner Glossary	Gartner Group						https://www.sartner.com/en/glossary/all-terms
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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	Andrew Security Commission on Arthread intelligence Final Report				2021	https://www.nscai.gov/20/21-tinal-report/ https://ec.eurona.eu/eurostat/ramon/coded_files/OECD_glossary_stat_terms.pdf / https://stats.oecd.org/glossary/
OECD_CAl_recommendati	Crosses y or consecued ICIIIIS	Organisasion for aconomic Co-operation and Development					2007	mayas/yssassoconsyssinani/tourumes/orasis/prosary sun terms par / nttps://stats.occu.org/piossary/
on	Recommendation of the Council on Artificial Intelligence		OECD Legal Instruments				2019	https://legalinstruments.oecd.org/en/instruments/oecd-legal-0449
	-	Tabassi, Elham;Kevin J. Burns; Michael Hadjimichael; Andres D. Molina-						
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IEEE_Soft_Vocab	Systems and software engineeringVocabulary		ISO/IEC/IEEE 24765				2017	https://ieeexplore.ieee.org/stamp/stamp/sp?tp=&arnumber=8016712
Kohavi,_Ron Mitchell Tom	Glossary of Terms: Special Issue on Applications of Machine Learning and the Knowledge Discovery Process Machine Learning	Kohavi, Ron; Foster Provost Mitchell Tom M	Machine Learning McGraw-Hill Science /Engineering /Math	30		271-274	1998	http://robotics.stanford.edu/~ronnyk/glossary.html https://www.cin.ufne.br/~cavmi/Machine%20-%201.earning%20-%2010m%20Mitchell.ndf
Mitchell,_Tom Cyber Guide	Machine Learning Cyber Security Planning Guide	Mitchell, Tom M. Federal Communications Commission	мсытаw-нш Science/Engineering/Math				1997	https://www.cin.ufpe.br/~cavmi/Machine%20~%20Learning%20~%20Tom%20Mitchell.pdf https://www.fcc.gov/sites/default/files/cyberplanner.pdf
		Federal Communications Commission						
CSRC AIMA	Information Technology Laboratory Computer Security Resource Center Glossary Artificial Inelligence: A Modern Approach	Russell, Stuart; Peter Norvig	NIST Pearson				0040	https://csrc.nist.gov/glossary https://zoo.cs.vale.edu/classes/cs470/materials/aima2010.pdf
Breiman_Leo	Bagging Predictors	Breiman, Leo	Machine Learning		24	123-140	1996	https://link.springer.com/content/pdf/10.1007/BF00058655.pdf
Breiman_Leo	nagging Predictors	Phillips D. Josephone Cooley & Hober Pater C. Pontoner Pariel &	T		24	123-140	1996	https://link.springer.com/content/pai/AUAB//BHJRUS8655.pai
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Blank,_Abagayle_Lee	Computer Vision Machine Learning and Future-Oriented Ethics	Blank, Abagayle Lee	Seattle Pacific University					https://digitalcommons.spu.edu/cgi/viewcontent.cgi?article=1100&context-honorsprojects
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McCue_Colleen	Data Mining and Predictive Analysis: Intelligence Gathering and Crime Analysis	McCue, Colleen	Butterworth-Heinemann				2007	20stuff.
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	False Negative	American Psychological Association (APA) NIST CSRC	Information Technology Laboratory Computer Security Resource Center Glossary				https://circhonary.aps.org/external-validity https://csrc.nist.sov/elossary/term/false_nestative
CSRC_false_positive	False Positive	NIST CSRC	Information Technology Laboratory Computer Security Resource Center Glossary				https://csrc.nist.gov/glossary/term/false_positive
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APA_integrity	integrity	American Psychological Association (APA)	APA Dictionary of Psychology				https://dictionary.apa.org/integrity
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APA_learning	learning The McNamara Fallacy	American Psychological Association (APA) Jonathan Cook	APA Dictionary of Psychology The McNamara Fallacy			-	https://dictionary.aps.org/learning 023 https://mcnamarafallacy.com/
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thods		John W. Creswell and Vicki L. Plano Clark	Designing and Conducting Mixed Methods Research, Third Edition			20	017
APA_observation	observation	American Psychological Association (APA)	APA Dictionary of Psychology				https://dictionary.apa.org/observation

ID	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volume	e Issue	Page(s)	Year	URL
Glossary_of_Statistical_Te								
	Glossary of Statistical Terms	Philip B. Stark	SticiGui				2019	https://www.stat.berkeley.edu/~stark/SticiGui/Text/gloss.htm
	Root-mean-square-deviation	Wikipedia	Wikipedia					https://en.wikipedia.org/wiki/Root-mean-square_deviation
APA_recognition	recognition	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/recognition
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Usabilitygov	Usability Testing	<u>Usability.gov</u>	<u>Usabillity.gov</u>					https://www.usability.gov/how-to-and-tools/methods/usability-testing.html
Encyclopedia. com_underrepresentation	Underrepresentation	Encyclopedia.com	Encyclopedia.com					https://www.encyclonedia.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				2023	https://www.marktechpost.com/2023/03/21/a-history-of-generative-ai-from-gan-to-gpt-4/
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- [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)