

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	
artificial general intelligence (AGI)	Algorithms that perform a wide variety of tasks and switch simultaneously from one activity to another in the manner that humans do	Bookings_Inst	Bookings_Inst	Wallace,_Brian	A machine that's as intelligent as a human and capable of solving the broad range of problems that require learning and reasoning	Wallace,_Brian	Human-like intelligence, which can be applied widely as opposed to narrow AI which can only be applied to one particular problem or task. Also called "strong AI" as opposed to "weak AI".	AI_Ethics,_Murk,_Coekelberg_h			
artificial intelligence (AI)	Interspersed field, usually regarded as a branch of computer science, dealing with models and systems for the performance of functions generally associated with human intelligence, such as reasoning and learning.	Reznik,_Leon	The field concerns with developing techniques to allow computers to act in a way that seems like an intelligent organism, such as a human would. The aims vary from the weak end, where a program seems "a little smarter" than one would expect, to the strong end, where the attempt is to develop a fully conscious, intelligent, computer program. The weak end is concerned with mapping into the general computing background, as the software and hardware evolves.	Raynor	The study of ideas to bring into being machines that respond to stimulation consistent with the way humans respond from humans, given the human capacity for contemplation, judgment and intention. Each such machine should engage in critical appraisal and selection of differing opinions from itself. Produced by human skill and labor, the machine's findings should be in agreement with life, spirit and sensitivity, though in reality, they are imitation.	Shubendran,_An	Shubendran,_An	Shubendran,_An	The application of computational tools to address tasks traditionally requiring human analysis.	Comptroller,_Office	
artificial intelligence learning	The ingestion of complex applications of domain mapping, and relevant analogies 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 AI learning also includes the capability of creating unique hypotheses, attributing data relevance, processing data relationships, and updating its own lines of inquiry to further the usefulness of its purpose.	IEEE_Guide,_1_PA									
artificial narrow intelligence (ANI)	[an AI system] that is designed to accomplish a specific problem-solving or reasoning task.	OECD_Artificial_intelligence_in_Society	Artificial Narrow Intelligence, also known as weak or applied intelligence, represents most of the current artificial intelligent systems which usually focus on a specific task. Narrow AI is much more better than humans at the tasks they were made for; for example, look at face recognition, chess computers, calculating and so on. The main difference between narrow and strong AI is in contrast to that of strong AI or artificial general intelligence, which aims at providing a system with consciousness or the ability to solve any problem. Virtually all AI systems in use are examples of artificial narrow intelligence.	AI_in_Medical_imaging_glossary						weak intelligence; applied intelligence	
artificial neural networks	A computing system, made up of a number of simple, highly interconnected processing elements, which processes information by its dynamic state response to external inputs.	Reznik,_Leon	A general definition of ANN is given by Haykin [1] describing ANN as a massively parallel combination of simple processing units which can acquire knowledge from environment through a learning process and store the knowledge in its connections.	gurses,_defini_tion_2001	Definition 1. A directed graph is called an Artificial Neural Network (ANN) if it has at least one start node (or Start Element (SE)), at least one end node (or End Element (EE)), at least one Processing Element (PE), x all the nodes used must be Processing Elements (PEs), except start nodes and end nodes, x is a state variable associated with each node, and each node has a bias. Definition 2. A directed link (ii) from node k to node i, x a real valued bias bi associated with each node i, x at most two parallel PE output in parallel, x a learning algorithm which helps to model the desired output for given input, x how link (ii) from node k to node i, that carries exactly the same flow which equals to nk caused by the output of node k, x each start node is connected to at least one end node, and each end node is connected to at least one start node, x no parallel edges (each link (ii) from node k to i to model i is unique).						
assessment	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_Vocab	the action or instance of making a judgment about something: the act of assessing something: APPRAISAL	Merriam-Webster,_assessment							
asset	Item, thing, or entity that has potential or actual value to an organization. Item that has been designed for use in multiple contexts.	IEEE_Soft_Vocab									
attack	Actions targeting a learning system to cause malfunction.	NECTR_R509_Draft	Any kind of malicious activity that attempts to collect, disrupt, deny, degrade, or destroy information system resources or the information itself.	CSRC							
attribute	Property associated with a set of real or abstract things that is some characteristic of interest.	IEEE_Soft_Vocab	A quantity describing an instance. An attribute has a domain defined by the attribute type, which denotes the values that can be taken by an attribute.	Kohav,_Ron	property or characteristic of an object that can be distinguished quantitatively or qualitatively by human or automated means	attribute,_measure,_metr,_2022,_using_ISO/IEC/TR_24029-1					
audit	Systematic, independent, documented process for obtaining records, statements of fact, or other relevant information and assessing them objectively, to determine the extent to which specified requirements are fulfilled.	IEEE_Soft_Vocab	To conduct an independent review and examination of system records and activities in order to test the adequacy and effectiveness of data security and data integrity procedures, to ensure compliance with established policy and operational procedures, and to recommend any necessary changes.	FDA_Glossary	Independent examination of a software product, software process, or set of software processes to assess compliance with specifications, standards, contractual agreements, or other criteria	NASA_Soft,_Standards	NASA_Soft,_Standards	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 fulfilled.	UNODC_Glossary,_QN_GLP		
audit log	A chronological record of system activities, including records of system accesses and operations performed in a given period.	SP800-37									
authenticity	Property that an entity is what it claims to be	ISO/IEC_TS_5723/2022e9									
automation	Independent machine-managed choreography of the operation of one or more digital systems.	IEEE_Guide,_1_PA	conversion of processes or equipment to automatic operation, or the results of the conversion	IEEE_Soft_Vocab	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_TEIV					
automation bias	over-relying on the outputs of AI systems	David,_Leslie_Morgan,_Briggs	It refers to a well-documented human propensity to automatically defer to automated systems, despite warning signals or contradictory information from other sources. In other words, human users are found to automatically defer their decision making to automation.	alon_barkat,_human_2023							
autonomic	A monitor-analyzer-planner-executor (MAPE) computer system capable of sensing environmental changes, determining potential outcomes (the state of the system's knowledge), making decisions, and initiating dynamically assembled routines of choreographed activity to both complete a process and update the set of environmental conditions. An autonomic system is able to self-manage its own operation and the processes it oversees. An autonomic system is identified by eight characteristics:	IEEE_Guide,_1_PA									
a)	Knows the resources to which it has access, what its capabilities and limitations are, and how and why it is connected to other systems.										
b)	Is able to acquire and recognize itself depending on the changing computing environment.										
c)	Is able to optimize its performance to ensure the most efficient computing process.										
d)	Is able to work around encountered problems either by repairing itself or routing functions away from the problem.										
e)	Is able to detect, identify, and protect itself against various types of attacks to maintain the system's security and integrity.										
f)	Is able to adapt to an environment as it changes by interacting with neighboring systems and establishing communication protocols.										
g)	Refers on standard open standards and requires access to proprietary environments to achieve full performance.										
h)	Is able to anticipate the demand on its resources transparently to users.										
autonomous vehicle	[an] automobile, bus, tractor, combine, boat, forklift, etc... capable of sensing its environment and moving safely with little or no human input.	Introduction_to_Information_Systems									
autonomy	The system has a set of intelligence-based capabilities that allow it to respond to situations that were not pre-programmed or anticipated (i.e., decision-based responses) prior to system deployment. Autonomous systems have a degree of self-government and self-directed behavior (with the human proxy for decisions).	DOD_TEIV	1. a state of independence and self-determination in an individual, a group, or a society. According to some theories, an individual focus on self-determination and self-government represents a risk factor for the development of major depressive disorders.	APA_autonomy							
availability	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	The property of being accessible and usable on demand by an authorized entity	ISO/IEC_TS_5723/2022e9					
back test	the quantitative evaluation of a model's performance both from a statistical and trading perspective	The_Science_of_Algorithms,_Trading,_And_Portfolios_Management									
backpropagation	The way many neural nets learn. They find the difference between their output and the desired output, then adjust the calculations in reverse order of execution.	Hinton,_Matthew	Ac classical method for error propagation when training Artificial Neural Networks (ANNs). For standard backpropagation, the parameters of each node are changed according to the local error gradient. The method can be very slow to converge and is prone to getting stuck in local minima. It is often used in conjunction with gradient descent for error propagation by batch processing. Many alternate methods such as the conjugate gradient and Levenberg-Marquardt algorithms are more effective and reliable.	Raynor							
bad actor	individuals or entities who are responsible for cyber incidents against enterprises, governments, and users.	Mark_Clampa_2021	someone with objectives of studying and using cyber security techniques and tools for personal gain through malicious or threat activity.	Thomas,_Edgar	In this approach we generate 8 different bootstrapped training data sets. We then fit a model on each of the 8 bootstrapped training set in order to get \hat{y}_1 to \hat{y}_8 and finally averaged the predictions to obtain $\hat{y}_{avg} = \frac{1}{8}(\hat{y}_1 + \hat{y}_2 + \dots + \hat{y}_8)$. This is called bagging.	hastie_introduction_2014					black hat, threat actor
bagging	Bagging predictors is a method for generating multiple versions of a predictor and using those to get an aggregated predictor.	Breiman,_Leo									
back-testing	A form of outcomes analysis that involves the comparison of actual outcomes with modelled forecasts during a development sample time period (i.e. sample back-testing) and during a sample period not used in model development (out-of-sample back-testing), and a form of observation frequency that matches the forecast horizon or period of the model.	Comptroller_Office									
batched automation	Process automation execution of intentionally segregated work processes that should be processed irrespective of their contextual placement within a service.	IEEE_Guide,_1_PA									
benchmark	Standard against which results can be measured or assessed; Procedure, problem, or test that can be used to compare systems or components to each other or to a standard.	IEEE_Soft_Vocab	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_Office	The term benchmarking is used in machine learning (ML) to refer to the evaluation of a machine learning model against other models using certain patterns in benchmark datasets that have been split as standard. Benchmarking could be thought of simply as a sanity check to confirm that a new method successfully runs as expected and can reliably find simple patterns that	olson_pmlb_2_07					

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error propagation	the way in which uncertainties in the variables affect the uncertainty in the calculated results.	Dorf, 2018								propagation of uncertainty; propagation of error
ethics	definition 1a: "a set of moral principles: a theory or system of moral values"; definition 1b: "the principles of conduct governing an individual or a group"; definition 1c: "a consciousness of moral importance"; definition 1d: "a guiding principle or belief as to what is right and wrong or desirable"; definition 2: "a set of moral values or principles that govern the behavior of an individual or group"; definition 3: "the discipline dealing with what is good and bad and with moral duty and obligation"	Merriam-Webster_ ethical	1. 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 are based on reason or on emotion, and whether they are subjective). The study of the first type of question is sometimes termed normative ethics and that of the second metaethics. Also called moral philosophy. 2. the principles of morally right conduct accepted by a person or a group or considered appropriate to a specific field. In psychological research, for example, proper ethics require that subjects be treated fairly and without harm and that investigators report results and findings honestly. See code of ethics; professional ethics; research ethics. —ethical adj.	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-oriented design" and "ethically aligned design."	AI_Ethics_Mar_k_Coeckelberg								Test, Evaluation, Verification and Validation (TEVV)
evaluation	(1) any determination of the extent to which an entry meets its specified criteria (2) action that assesses the value of something	aiime_measure_ment_2022_citing ISO/IEC 24765								
evasion	In Evasion, blocks, the adversary solves a constrained optimization problem to find a small input perturbation that causes a large change in the loss function and results in output misclassification.	tabassi_advers_aral_2019								
example	definition 1: "one that serves as a pattern to be imitated or not to be imitated"; definition 3: "one that is representative of all of a group or type"; definition 4: "a paradigm or model, especially one that is used to illustrate a general rule or principle"; definition 5: "an instance (such as a problem to be solved) serving to illustrate a rule or principle". See also: paradigm, type	Merriam-Webster_ex-ample								
exception	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 unforeseen sequencing of a task or event.	IEEE_Guide_I_PA								
execute	To carry out a plan, a task, command, or another instruction	SP901	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_Vocab						
executive	one that exercises administrative or managerial control	Merriam-Webster_exec-utive								
ex-nomination	Ex-nomination is the harm of eliminating social identity by almost ignoring its existence. This term comes from Barthes where he coined it to describe what the bourgeoisie do to hide their name and identity by not referring to themselves as such to naturalize bourgeois identity. This can show up in some of the same ways that we see it in AI, as well, such as when an AI fails to recognize a technology or not recognizing a certain class of people with facial recognition technology or by having民族 biases toward certain subjective or descriptive certain classes	Blank,_Shagley_Lec								
experiment	A study of the effects produced under controlled conditions in order to determine a relationship with the purpose of drawing causal inferences about that relationship. An experiment involves the manipulation of an independent variable and the measurement of the dependent variable. It is often used to test participants to one or more of the conditions being studied. Random selection of participants and their random assignment to conditions also are necessary in experiments.	apa_experime_nt_2023	A study of a fundamental physical process by the use of one or more computer simulators. Like empirical experiments, input variables (factors) are systematically changed to assess their impact upon simulator outputs (responses). Computer experiments are often used to study systems that are deterministic, and this has implications: Computer experiments can appropriately have their factors with intermediate levels and the scope, especially when using a response surface methodology. Computer modeling methods based on interpolators (especially kriging) emerge as a viable approach. Good practice is to use Latin hypercubes for computer experiments, and advanced methods for computer experiments include kriging, neural networks, and multivariate adaptive regression splines (MARS) in the data analysis stage. Important applications of computer experimental methods are for determining process parameters and for process optimization.	niae_statistics_2022						
expert system	A form of AI that attempts to replicate a human's expertise in an area, such as medical diagnosis. It combines a knowledge base with a set of hand-coded rules for applying that knowledge. Machine-learning techniques are increasingly replacing hand coding.	Butow,_Matthew	Intelligent computer program that uses knowledge and inference procedures to solve problems that are difficult enough to require significant human expertise for their solution.	Renzik_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.	OECD	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_Vocab		NSCI
expertise	The accumulation of specialized knowledge is often called expertise. Formal expertise is a type of knowledge-based specialization that arises from experiences in life and one's position in a society or culture. Formal expertise is the result of a self-selection of a domain of knowledge that is mastered definitionally. The term "expert" refers to one who is highly skilled in a particular field.	Schneider_Mc_Graw_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_8559_Draft	Within the context of AI, the extent to which AI decisioning processes and outcomes are reasonably understood.	Comptroller_Office	The ability to explain or be explained. In the context of ethics, it refers to the ability to explain to others why you have done something or why you have made a decision; this is part of what it means to be responsible.	AI_Ethics_Mar_k_Coeckelberg	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 (as 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).	NISTIR_8280		interpretability
explainable artificial intelligence (XAI)	XAI seeks to make AI more understandable and interpretable, and therefore trustworthy. One of the complaints about artificial intelligence is the lack of transparency in how it operates. Many algorithms developers don't reveal the data that go into applications or how various factors are weighted and analyzed. That makes it difficult for users to understand how AI arrived at a decision. If they can't reach the outcome or decision that it did, that lack of explainability can lead people to suspect the worst about AI, and thus not trust AI in general or certain AI applications. XAI is a way to help describe either the overall function of AI or the specific way it reaches decisions.	Brookings_Institution	AI that can explain its actions, decisions, or recommendations, or can provide sufficient information about how it came to its result.	AI_Fairness_3_60						
explainer	Functionality for providing details on or causes for fairness metric results.	NISTIR_8269_Draft	The explanation principle obligates AI systems to supply evidence, support, or reasoning for each output.	NISTIR_8362						
explanatory	Systems deliver accompanying evidence or reasoning for all outputs.	NISTIR_8269_Draft								
exploratory	Exploratory Data Analysis (EDA) is an approach/philoosophy for data analysis that employ a variety of techniques (mainly graphical) to examine data and data set, 2: uncover underlying structures, 3: extract important variables, 4: detect outliers and anomalies, 5: test underlying assumptions; 6: develop parsimonious models; and 7: determine optimal parameter settings.	niae_statistics_2022								
external validity	A measure of external validity is the degree to which its results can be extended (generalized) beyond the research setting and sample in which they were obtained.	berkman_Resea_rch_2018	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 the test results are highly generalizable to other individuals, situations, and time periods.	APA_external_vali-dity						
facial recognition (FR)	A technology for identifying specific people based on pictures or videos. It operates by analyzing features such as the structure of the face, the distance between the eyes, and the angles between a person's eyes, nose, and mouth. It is commonly used for security, privacy, investigations, law enforcement, or abuse or piracy by government or corporate entities. In addition, there have been well-documented biases by race and gender with many facial recognition algorithms.	Brookings_Institution	Records the spatial geometry of distinguishing features of the face. Different vendors use different methods of facial recognition, however, all focus on measures of key features of the face.	Woodward	Face recognition algorithms, however, have no built-in notion of a particular person. They are not built to identify particular people, instead they include a face detector that is able to detect the presence of a face and then extract a more general representation of a person as a vector of values that relate to the identity of the person. The extractor typically consists of a neural network that has been trained on an AI dataset. In this way, the algorithm is able to learn to extract generic extractions of identity-related information from photos of persons they have usually never seen before. Recognition proceeds as a differential operator: Algorithms compare the vector representation of a person's face to a vendor-defined numeric value expressing how similar the person's face is to the person's face vector (or "template").	NISTIR_8280				
fair-washing	promoting the false perception that a machine learning model respects some ethical principles.	avodji_fairwash_2019								
fairness (another entry for "algorithmic fairness")	Any "initial assumptions" regarding "the regulation of [human] life effected by stated and unstated rules of interaction," rules that most interactants see as "generally applicable" and "reasonable." (We have to get the full definition from the book..)	Avodji_Wierzbicka_English_Linguistics_and_Culture_Oxford_University_Press_2006_ISBN_9780199263522								
fairness metric	A quantification of unwanted bias in training data or models.	AI_Fairness_3_60	A mathematical definition of "fairness" that is measurable. Some commonly used fairness metrics include: equalized odds predictive parity countervail fairness demographic parity Many fairness metrics are mutually exclusive; see incompatibility of fairness	google_glossary_2023						

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in silico	carrying out some experiment by means of a computer simulation	World_Wide_Words_in_silico									computer simulation testing	
instance	Discrete, bounded thing with an intrinsic, immutable, and unique identity. Individual occurrence of a type	IEEE_Soft_Vocab	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								
instance weight	A numerical value that multiplies the contribution of a data point in a model.	IEEE_Soft_Vocab	Guarding against improper information modification or destruction, and includes ensuring information non-repudiation and authenticity.	CSRC	The property whereby information, an information system, or a component of a system has not been modified or destroyed in an unauthorized manner.	CISA	<data> property whereby data have not been altered in an unauthorized manner since they were created, transmitted, or stored; <systems> property of accuracy	ISO/IEC_TS_5723.2022[en]	the quality of moral consistency, honesty, and truthfulness with oneself and others.	APA_integrity		
integrity	Degree to which a system, product, or component prevents unauthorized access to, or modification of, computer programs or data.	IEEE_Guide_1_PA										
intelligent process automation	A pre-configured software instance that combines business rules, experience-based context determination logic, and decision criteria to initiate and execute multiple interrelated human and automated processes in a dynamic context. The goal is to increase the efficiency of processes, activities, and tasks in one or more unrelated software systems that deliver a real service with minimal or no human intervention.	IEEE_Soft_Vocab	borders_research_2010	the degree to which a study or experiment is free from flaws in its internal design and its results can be taken to be representative of the nature of the phenomena. 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 causation based on the data	APA_internal_validity							
interaction	Action that takes place with the participation of the environment of the object.	IEEE_Soft_Vocab										
internal validity	The ability of your research design to adequately test your hypotheses	IEEE_Guide_1_PA										
interoperability	The ability of software or hardware systems or components to operate together successfully.	SP800-131	Degree to which two or more systems, products or components can exchange information and use the information that has been exchanged	IEEE_Soft_Vocab	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 a cause and effect can be observed within a system or to which what is going to happen given a change in input or algorithmic parameters can be predicted.	NSCAI	The ability to understand the value and the information that has been exchanged terms to a human.	IEEE_Soft_Vocab	ame_measure_2022_citing_Machine_Learning_Glossary_By_Google						explainability	
interpretable model	An interpretable machine learning model obeys a domain-specific set of constraints to allow it to be produced, or the data to be more easily understood by humans. These constraints can dramatically depend on the domain.	rudin_interpretable_2022										
intervenability	The property that intervention is possible concerning all ongoing or planned 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 whom.	Covert_et_al										
kill switch	a form of safety mechanism used to completely shut off a device in case of an emergency. A switch where it cannot be shut off using the normal process or if immediate shut off is required.	Techopedia_ki_ll_switch										
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_1_PA	artificial intelligence: abstracted information about objects, events, concepts or rules, their relationships and properties, organized for goal-oriented systematic use	ame_measure_2022_citing_ISO/IEC_22989								
label	A value corresponding to an outcome.	AI_Fairness_3_60	target variable assigned to a sample	ame_measure_2022_citing_ISO/IEC_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 assumption, i.e., p(y) = p(y X)	saaruh_label_2020										
large language model (LLM)	The class of language models that use deep-learning algorithms and are trained on extremely large textual datasets that can be multiple terabytes in size. LLMs can be classed into two types: generative or discriminative. Generative LLMs are most commonly used for tasks such as language translation and text generation. Essays on a specific topic. They are typically unsupervised or semi-supervised learning models that predict what the response is for a given task. Discriminatory LLMs are used for tasks such as sentiment analysis and text classification, such as determining whether a text was made by a human or AI.	AI_Assurance_2022									language model	
language model	A language model is an approximative description that captures patterns and regularities present in language and is used for making assumptions on previously unseen language fragments.	Gustavii_Ebba									large language model (LLM)	
learning	A procedure in artificial intelligence by which an artificial intelligence program improves its performance by gaining knowledge.	Demis_Merkel	the acquisition of novel information, knowledge, or abilities after practice, observation, or other experience, 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, forming new cognitive representations, and integrating it with relevant existing knowledge active over long-term memory	APA_learning								
least privilege	The principle that a security architecture should be designed so that each entity is granted the minimum set of system resources and authorizations that the entity needs to perform its function.	CSRC	The security objective of granting users only those accesses they need to perform their official duties.	SP-800-12								
lemmatization	The process of grouping together the different inflected forms of a word so they can be analyzed as a single item.	Artasánchez_José_Alt_with_Python	in natural language processing, ... working with words according to their root lexical lemmas	Techopedia_lemmatization	grouping together words with the same root or lemma but with different inflections or derivatives of meaning so they can be analyzed as one item.	TechLang_lemmatization	the grouping together of different forms of the same word.	TechTarget_lemmatization				
linear model	[a supervised learning algorithm that uses] a simple formula to find a best-fit line through a set of data points.	fatihali_M_2019_no_models	(linear) An operator L^\sim is said to be linear if, for every pair of functions f and g and scalar a ,	wolfram_math_world_2022								
local	Mainly focus on explanation of individual data instances. Generates one explanation map g per data $\forall x \in X$	arun_opportunities_2020	$L^\sim(f+g) = L^\sim f + L^\sim g$ and	NISTIR_8332_Full								
localization	Creation of a national or specific regional version of a product.	IEEE_Soft_Vocab	$L^\sim(af) = f$.									
logistic model	(logistic equation) The continuous version of the logistic model is described by the differential equation $\frac{dy}{dt} = y(K - y)$ (where y is the Malthusian parameter (rate of maximum population growth) and K is the so-called carrying capacity (i.e., the maximum sustainable population)). Dividing both sides by y and defining $x = t/K$ then gives the differential equation $(\frac{dy}{dt})/y = K - y$, which is known as the logistic equation and has solution $y(t) = \frac{K}{1 + (K-1)e^{-Kt}}$. (3)	wolfram_math_world_2022	The function $s(t)$ is sometimes known as the sigmoid function.									
machine learning	A general approach for determining models from data.	AI_Fairness_3_60	Machine Learning is the study of computer algorithms that improve automatically through experience.	Mitchell_Tom	Machine learning is based on algorithms that can learn from data without relying on rule-based programming.	Pyle_and_San_Jose	The study or the application of computer algorithms that improve automatically through experience. Machine learning algorithms build a model based on training data in order to perform a specific task, like aiding in prediction or decision-making processes, without necessarily being explicitly programmed to do so	NSCAI	A sub-category 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_Office		
machine observation	Machine detection and interpretation of relevant and meaningful events and conditions that impact or affect the computer system itself or other dependent mechanisms or processes essential to the purpose of the system. See also: sensor.	IEEE_Guide_1_PA										
malicious actor	Hardware, firmware, or software that is intentionally included or inserted in a system for a harmful purpose.	Reznik_Leon	Software that compromises the operation of a system by performing an unauthorized function or process.	CISA								
malware	Refers to the significance of a measure in terms of financial or performance information. If a metric is material to the set of information, then it is also likely to be significant to the user of that information.	OECD										
McNamara fallacy	presuming that (1) quantitative models of reality are always more accurate than other models; (2) the quantitative measurements that can be made most easily must be the most accurate; and (3) the quantitative measurements included in quantitative metrics must either not exist or not have a significant influence on success. This flawed approach to reasoning is also known as the quantitative fallacy.	McNamara_Fal_lacy									quantitative fallacy	
measurement	(Quantitative) act or process of assigning a number or category to an entity to describe an attribute of that entity. (2) measure: process to use a quantity or quantity to describe the properties of the object; (3) process to assign a metric to a value (e.g., a number or category) from a scale to an attribute of an entity; (4) set of operations having the object of determining a value or quantity of an entity or phenomenon; (5) process of assessing engineering work products, processes, and resources plus the models that are derived from them; whether these models are developed using statistical or other techniques; (6) figure, extent, or amount obtained by measuring	ame_measure_2022_citing_ISO/IEC_22989	(Qualitative) (1) a way of learning about social reality [...] that uses approaches [...] to explore, describe, or explain social phenomena; (2) track the development of an entity or action over time; (3) process to gain a deeper level of understanding about some aspect of social reality; build "thick descriptions" (see Goffman, 1973) of people in social settings; explore new or underexplored areas of social reality; (4) process to compare and contrast differences between individuals/groups and institutional and/or cultural contexts; (2) approaches that can make visible and unpack the mechanisms which link particular theories; (5) process to look at the explanations, or accounts, provided by those involved.	Leavy_OHQRI_Intro	Qualitative measurement engages research methods and techniques to provide information about the nature of phenomena. Qualitative methods are designed for systematic collection, organization, description and interpretation of numeric (textual, verbal or visual) data (Hammerberg et al., 2008). Qualitative measurement generally answers questions about why, for whom, when, and how something happened. Qualitative measurement can also ask questions that answer questions about what is observed. Elements assessed using qualitative measurement may include contextual norms or meaning, socio-cultural dynamics, and/or social processes. Qualitative measurement explores multi-component interactions or interventions (Bassetto et al., 2020).	Hammerberg_2016_Bassetto_2020	Documentation of assumptions and methods used is a foundational element of qualitative measurement, as the choice of single or multiple methods is made based on phenomena studied. Qualitative methods can provide appropriately paired, qualitative and quantitative measurement can provide corroboration or elaboration, demonstrate use cases, and/or identify conditions for complementarity or contradiction (Brammer, 2009).	Russell_2003_Brannen_2005				

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms [2]	Legal definition applicable
precision	A metric for classification models. Precision identifies the frequency with which a model was correct when classifying the positive class.	NSCAI	closereness of agreement between indications or measured quantity values obtained by replicate measurements on the same or similar objects under specified conditions	ame_measure_metr_2022_citing ISO/IEC Guide 59	A metric for classification models. Precision identifies the frequency with which a model was correct when predicting the positive class. That is, $Precision = \frac{True Positive}{True Positive + False Positive}$	ame_measure_metr_2022_citing ISO/IEC Guide 59	A metric for classification models. Precision identifies the frequency with which a model was correct when predicting the positive class. That is, $Precision = \frac{True Positive}{True Positive + False Positive}$	UNODC_Glossary_QN_GLP				
prediction	Forecasting quantitative or qualitative outputs through function approximation, applied on input data or measurements.	NSCAI	primary output of an AI system when provided with input data or information	ame_measure_metr_2022_citing ISO/IEC 2989								
predictive analysis	The organization of structured and unstructured data for inference and correlation that provides a useful predictive capability to new circumstances or data.	IEEE_Guide_1_PA										
predictive analytics	Insights, reporting, and information answering the question, "What is likely to happen?" Predictive analytics support high confidence forecasting of future event(s).	IEEE_Guide_1_PA										
preprocessing	Transforming the data so that the underlying discrimination is mitigated. That means that the data is modified in a way that is allowed to modify training data.	SP270	Techniques that try to transform the data so the underlying discrimination is removed. If the algorithm is allowed to modify the training data, then pre-processing can be used.									
prescriptive analytics	Identifying, reporting, and information answering the question, "What should I do next?" Prescriptive analytics determines information that provides high confidence actions necessary to recover from an event or fulfill a need.	IEEE_Guide_1_PA										
privacy	freedom from intrusion into the private life or affairs of an individual	ISO/IEC_TS_5723:2022(e)	freedom from intrusion into the private life or affairs of an individual when that freedom results from under or illegitimate and use of data about that individual	ame_measure_metr_2022_citing ISO/IEC TR 24029-1								
privacy-by-design	Embedding privacy measures and privacy enhancing technologies directly into the design of information technologies and systems.	ENISA										
privacy-enhancing technology	A coherent system of (IT, Information and Communications Technology) measures that protect privacy by eliminating or reducing personal data or by preventing unnecessary and/or undesired processing of personal data, all without losing the functionality of the information system.	PET_Handbook_k										
privileged-protected attribute	A value of a protected attribute indicating a group that has historically been at an advantage or disadvantage.	AI_Fairness_3										
procedure	Information item that presents an ordered series of steps to perform a process, activity, or task.	IEEE_Soft_Vocab										
process	A sequence or flow of activities in an organization with the objective of carrying out a process. A process is a sequence of activities that are connected in a sequenced flow that adhere to finite execution semantics. Process levels will generally follow structure at the capability maturity model integration (CMMI) levels.	IEEE_Guide_1_PA	Set of interrelated or interacting activities that transforms inputs into outputs	IEEE_Soft_Vocab								
process flow	The defined representation of the overall progression of how a process is intended to be performed, including all exceptions.	IEEE_Guide_1_PA										
processing	"Processing" means any operation or set of operations which is performed on personal data or on sets of personal data, whether by automated means, such as collection, recording, organisation, structuring, storage, adaptation or modification, or by means of combining data with other personal data or otherwise making available, alignment or combination, restriction, erasure or destruction.	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	The combination of software and hardware on which the Application runs.	Low_Border_p_receiving_environment										
processor	"Processor" means a natural or legal person, public authority, agency or other body which processes personal data on behalf of the controller.	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	
product manager	A specialized manager whose job is to manage the planning, development, launch, and success of products/solutions powered by AI, machine learning, and deep learning.	productmanagerHQ_Josh_Fe										
product owner	[person who is] focused on providing direction and prioritization for the cross-functional AI team, ensuring everyone remains focused on the overall vision and roadmap, and identifying individuals with diverse skills and backgrounds towards a common goal.	Forbes_Tracy_Kemp										
product velocity	how fast a product can be delivered to the market	Cost_Manage_metr_chi5										
productization	[turning the best performing model] into an actual "data product", ready to be used in live services.	Tools_and_Prod_uxtizing										
profiling	"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 person, in particular to analyze or predict aspects concerning that natural person's performance at work, economic situation, health, personal preferences, interests, reliability, behavior, location, or movements.	GDPR	"Profiling" means any form of automated processing of personal information, as further defined by regulations pursuant to paragraph (6) of subdivision (a) of Section 1798.35, to evaluate certain personal aspects relating to a natural person and in particular to analyze or predict aspects concerning that natural person's performance at work, economic situation, health, personal preferences, interests, reliability, behavior, location, or movements.	CCPA	Measuring the characteristics of expected activity so that changes to it can be more easily identified.	CSRC					personal data processing	
protected attribute	An attribute that is used to identify groups into which whose outcomes should have been party. Examples include race, gender, caste, and religion. Protected attributes are not universal, but are application-specific.	AI_Fairness_3_60										
protected class	[a feature] that may not be used as the basis for decisions [and] could be chosen because of legal mandates or because of organizational values. Some common protected classes include race, ethnicity, gender, gender, marital status, age, and socioeconomic status.	MIT_Protect_d_Attributes	A group of people with a common characteristic who are legally protected from discrimination on the basis of that characteristic. Protected classes are created by both federal and state law.	Practical_Law__protected_cl ass								
prototype	A prototype is an initial version of a system designed to test all the technical characteristics and performances of the end product.	OECD										
provisioning	The granting of access rights and executive privilege to an agent (human or machine) within an application(s) or system(s).	IEEE_Guide_1_PA										
proxy	A variable that can stand for another, usually not directly observable or measurable.	SP270										
proxy discrimination	a particularly pernicious subset of disparate impact. Like all forms of disparate impact, it involves a faculty neutral practice that disproportionately harms members of a protected class. But a proxy discrimination does not only amounts to discrimination, it is a second condition to met. In particular, proxy discrimination requires that the user/lessee of the discriminatory practice is not the one who is subject to the discrimination. This condition can be met either when the discriminator or interests to disparate impact a protected group or when a legally prohibited than can be met when the discriminator or interests to disparate impact a group in ways that cannot be captured more directly by non-suspect data.	Proxy_Discri mination										
pseudo-anonymization (pseudonymization)	"Pseudonymization" means the processing of personal data in such a manner that the personal data can no longer be attributed to a specific natural person, unless additional information is provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal information is not attributed to an identified or identifiable natural person.	GDPR	"Pseudonymization" or "Pseudonymisation" means the processing of personal 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 organisational measures to ensure that the personal information is not attributed to an identified or identifiable consumer.	CCPA	A data management technique to strip identifiers linking data to an individual.	NSCAI					personal data processing	
psychosocial	a system of theories, assumptions, and methods erroneously regarded as scientific	Merriman_Webster_psuedo_science										
quality	The totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs.	OECD										
racialized	A socio-political process by which groups are ascribed a racial identity, whether or not members of the group itself such as such	AAAS_AI_and_Bias_2022_09										
ranking	a type of machine learning that sorts data in a relevant order; often used by companies to optimize search and recommendations.	DEV_ranking	position, order, or standing within a group : RANK	Merriman_Webster_rankin								
											Mehrab_Nazarch (this definition is more technical, though)	

Terms	Definition 1	Citation 1 [1]	Definition 2	Citation 2	Definition 3	Citation 3	Definition 4	Citation 4	Definition 5	Citation 5	Related terms and synonyms [2]	Legal definition applicable
true positive	an outcome where the model correctly predicts the positive class.	google_dev_.cl assification_true_posi tive_-negative		DOD_TEVV	degree to which a user or other stakeholder has confidence that a product or system will behave as intended	aiine_measure ment_2020_citing ISO/IEC TR 24029-1						
trust	the system starts in the mind of humans beings based on their perception and expectation of the system and the attributes of the system and the technology with help achieve specific goals in a situation characterized by uncertainty and vulnerability.			SP800-37	Worthy of being trusted to fulfill whatever critical requirements may be needed for the confidentiality, integrity, and availability of the information being processed, stored or transmitted by the system across the full range of threat and individual privacy.	SP800-86	the attitude that an agent will help achieve an individual's goals in a situation characterized by uncertainty and vulnerability.					
trustworthiness	The system starts in the mind of humans beings based on their perception and expectation of the system and the attributes of the system and the technology with help achieve specific goals in a situation characterized by uncertainty and vulnerability.			NIST_AL_RMF _ID	AI that can be trusted by humans. Conditions for such trust can refer to (a) ethical principles such as human dignity, respect for human rights, and (b) to social and technical factors that influence whether people will want to use the technology. The use of the term "trust" with regard to technologies is controversial.	AI_Ethics_Mar k_Cockeberg h	Trustworthy AI has three components: (1) it should be lawful, ensuring compliance with all applicable laws and regulations; (2) it should be ethical, demonstrating respect for, and ensure adherence to, ethical principles; and (3) it should be robust, both from a technical and social perspective, since, even with good intentions, AI systems can make mistakes. Trustworthy AI concerns not only the trustworthiness of the AI system itself but also comprises the trustworthiness of all processes and actors that are part of the system's life cycle.	europaean_ethe ri_2019				
type I error	The null hypothesis H0 is rejected, even though it is [true]	berthold_guid	false positive rate	james_statistic al_2014								
type II error	The null hypothesis H0 is accepted, even though it is [false]	berthold_guid	true positive rate	IEEE_Soft_Vo cab								
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 a situation.	Rauschart, Erik										
underfitting	Underfitting occurs when a statistical model cannot adequately capture the underlying data.	Merriman, Helene										
underrepresentation	inadequately represented. (See note.)	underep resestion										
unexplainable	impossibility of providing an explanation for certain decisions made by an intelligent system which is both 100% accurate and comprehensible.	Roman, V. Unexplai nability									black box; opacity	
unstructured data	Data that does not have a predefined data model or is not organized in a predefined way.											
unsupervised learning	Algorithms, which take a set of data consisting only of inputs and then they attempt to cluster the data objects based on the similarities or dissimilarities in them.	Reznik, Leon	Learning techniques that group instances without a pre-specified dependent attribute.	Kohavi, Ron	A learning strategy that consists in observing and analyzing different entities and determining that some of their subsets can be grouped into certain classes; with the help of this strategy, new knowledge is learned on acquired knowledge through feedback from external knowledge sources.	iso_2382_1997						
usability	extent to which a system product or service can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use (note: The term "user" is used in this definition to refer to the participant in a situation of users, goals and context of use for which usability is being considered; note 2: used as a qualifier to refer to the design knowledge, competencies, experience and design methods required to achieve usability (e.g., usability expertise, user professionals, usability engineering, usability method, usability evaluation, usability heuristics). (See also ISO/IEC 9241-210:2018, ISO/IEC 9241-211:2018, ISO/IEC 9241-212:2018, ISO/IEC 9241-213:2018, ISO/IEC 9241-214:2018, ISO/IEC 9241-215:2018, ISO/IEC 9241-216:2018, ISO/IEC 9241-217:2018, ISO/IEC 9241-218:2018, ISO/IEC 9241-219:2018, ISO/IEC 9241-220:2018, ISO/IEC 9241-221:2018, ISO/IEC 9241-222:2018, ISO/IEC 9241-223:2018, ISO/IEC 9241-224:2018, ISO/IEC 9241-225:2018, ISO/IEC 9241-226:2018, ISO/IEC 9241-227:2018, ISO/IEC 9241-228:2018, ISO/IEC 9241-229:2018, ISO/IEC 9241-230:2018, ISO/IEC 9241-231:2018, ISO/IEC 9241-232:2018, ISO/IEC 9241-233:2018, ISO/IEC 9241-234:2018, ISO/IEC 9241-235:2018, ISO/IEC 9241-236:2018, ISO/IEC 9241-237:2018, ISO/IEC 9241-238:2018, ISO/IEC 9241-239:2018, ISO/IEC 9241-240:2018, ISO/IEC 9241-241:2018, ISO/IEC 9241-242:2018, ISO/IEC 9241-243:2018, ISO/IEC 9241-244:2018, ISO/IEC 9241-245:2018, ISO/IEC 9241-246:2018, ISO/IEC 9241-247:2018, ISO/IEC 9241-248:2018, ISO/IEC 9241-249:2018, ISO/IEC 9241-250:2018, ISO/IEC 9241-251:2018, ISO/IEC 9241-252:2018, 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GDPR	Regulation (EU) 2016/679 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 95/46/EC (General Data Protection Regulation)								
CCPA	California Consumer Privacy Act of 2018								
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Shahbeigi_and_Vijay	Applicability of Artificial Intelligence in Different Fields of Life	Shahbeigi, Shukla S. and Jaiwal Vijay	AI Incident Database	2002					
			International Journal of Scientific Engineering and Research (IJSER)	1	1	28-35	2003	https://www.ijsr.net/archives/10/2003/1511.pdf	
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AI_Forensics_360	Glossary	AI Forensics 360	The International Dictionary of Artificial Intelligence	1999				https://www.ifa.org/ifa/ifa_glossary/ifa_9000.htm	
Michelle_Tom	Machine Learning	Michelle, Tom	Machine Learning	1997				https://www.ifa.org/ifa/ifa_glossary/ifa_9000.htm	
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FiPML_Wiki	Definitions	SourceForge	FiPML Wiki					https://fipmat.sourceforge.net/doc/fipml/fipml-0.1.0.pdf	
IAPP_Privacy_Glossary	Glossary of Privacy Terms							https://fipmat.sourceforge.net/doc/fipml/fipml-0.1.0.pdf	
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Russell_and_Norvig		Stuart Russell and Peter Norvig	Artificial Intelligence: A Modern Approach (Fourth Edition)				2021		
SP800-37	Towards a Standard for Identifying and Managing Bias in Artificial Intelligence	Schwarts, Reva, Apostol Vassilev, Kristen Greene, Lori Perini, Andrew Burt, Patrick Hall	NIST Special Publication 800-37					https://csrc.nist.gov/ncpp/800-37c/draft/800-37c.pdf	
SP800-100	Autonomy Levels for Unmanned Systems (ALUFS) Framework	Adams, Michael and others	NIST Special Publication 800-100				2008	https://csrc.nist.gov/ncpp/800-100/draft/800-100-2.pdf	
Gartner_Glossary	Gartner Glossary	Gartner Group						https://www.gartner.com/doc/3014449	
Vasireddy_Kush	Trustworthy Machine Learning	Vasireddy, Kush R.							
Munir_Arsalan	Artificial Intelligence and Data Fusion at the Edge	Munir, Arsalan, Erik Blasch, Jia Wu, Jionho Kong, and Alexander Averbuch	IEEE A&E SYSTEMS MAGAZINE	36	7	62-78	2001	https://ieeexplore.ieee.org/abstract/document/945838	
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Kohavi_Ross	Glossary of Machine Learning: A Topical Summary	Kohavi, Ron, Foster Provost	Machine Learning	30	275-274		1998	https://ieeexplore.ieee.org/abstract/document/4000000	
Michael_Ton	Machine Learning	Mitchell, Tom	McGraw-Hill Science/Engineering/Math				1997	https://ieeexplore.ieee.org/abstract/document/4000000	
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ID	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volume	Issue	Page(s)	Year	URL	Notes
NIST_CSC_parity	parity	NIST Computer Security Resource Center	NIST Computer Security Resource Center					https://csrc.nist.gov/glossary/term/parity	See page 635 for definition of "learning"; many other specific kinds of "learning" are defined here as well.
Demir_Mercadal	1	Demir Mercadal	Dictionary of Artificial Intelligence				1990	https://archiv.org/details/dictioai00000000/page/782/mode/2up#page/782/mode/2up#page/782/mode/2up">https://archiv.org/details/dictioai00000000/page/782/mode/2up#page/782/mode/2up	
Ekatrina_et_al_2020	Why Are We Averse towards Algorithms? A Comprehensive Literature Review on Algorithmic Aversion	Ekatrina Iosupov, Izaak Benbasat, and Armin Heinzl	Proceedings of the 28th European Conference on Information Systems (ECIS), An Online Conference				2020	https://doi.org/10.3233/ECIS-2020-0984	
Gabriel_2020	Artificial Intelligence, Values, and Alignment	Iason Gabriel	High-Level Expert Group on Artificial Intelligence				2020	https://link.springer.com/chapter/10.1007/978-3-030-95810-2_2	
iso_2382_2010	A Standard Test Suite for Random and Pseudorandom Number Generators for Cryptographic Applications.	ISO	ISO/IEC 2382-2010				2010	https://www.iso.org/standard/iso-2382-2010.html	
iso_23889_2022	Information technology – Artificial intelligence – Artificial intelligence concepts and terminology	ISO	ISO/IEC 23889				2022	https://www.iso.org/standard/iso-23889.html	
europen_ai_2019	Ethics Guidelines for Trustworthy AI	High-Level Expert Group on Artificial Intelligence	High-Level Expert Group on Artificial Intelligence				2019	https://ec.europa.eu/justice/rm/ai/ethics-consultation_en.html	
Friedman_2019	A Survey of Value Sensitive Design Methods	Batya Friedman, David G. Hendry, and Alon Borsig	Foundations and Trends® in Human-Computer Interaction				2019	https://www.nowpublishers.com/series/ftrh/ftrh-001	
Impact_Policy_Center_Impact_assessments	Explainer: Impact Assessments for Artificial Intelligence	Sean Long, Jeremy Peiser, and Tom Rommelf	Impact Policy Center				2022	https://impactpolicy.org/blog/impact-assessments-for-ai/	Published November 9, 2022
Kunis_Digital_2001	The Value of Knowledge Management	Kimia Dakir	Knowledge Management in Theory and Practice				2001	https://www.sagepub.com/books/10.4199/152132201783000001	Definition 1 for "qualitative measurement" is on page 343 ("Qualitative measures can serve to...")
Cost_Management_ch2	Basic Cost Management Concepts	Don R. Hansen, Maryanne M. Mowen, and Dan L. Heitzer	Cost Management				2021	https://www.sagepub.com/books/10.4199/152132201783000001	Definition 2 for "qualitative measurement" is on page 343 ("Qualitative measures can serve to...")
Value_Diversity_Responsibility_and_Artificial_Intelligence	Responsibility and Artificial Intelligence	Virginia Dignum	The Oxford Handbook of Ethics of AI	215-232			2020	https://www.sagepub.com/books/10.4199/152132201783000001	Definition 1 for "values" is taken verbatim from page 221; see the note at the end of the term's row.
yeom_avoiding_2021	Avoiding Disparity Amplification under Different Worldviews	Yeon, Samuel, and Michael Carl Tschantz	The Oxford Handbook of Ethics of AI	215-232			2020	https://www.sagepub.com/books/10.4199/152132201783000001	
Merriam_Webster_context		Merriam-Webster	Merriam-Webster Dictionary				2021	https://www.merriam-webster.com/dictionary/context	Taken from definition 2
jacobs_measurement_2023	Measurement and Fairness	Jacobs, Abigail Z., and Hanna Wulffach	Merriam-Webster				2021	https://www.merriam-webster.com/dictionary/fairness	Taken from definition 2
Merriam_Webster_impact	impact	Merriam-Webster	Merriam-Webster				2021	https://www.merriam-webster.com/dictionary/impact	
Lisa_M_Green_SAGE	Mixed Methods Research	Lisa M. Green	The SAGE Encyclopedia of Qualitative Research Methods	491-538			2008	https://www.sagepub.com/books/10.4199/152132201783000001	Definition for "mixed methods" appears on page 526.
NIST_AI_RMf_10	NIST AI RMf 10	REST	NIST AI RMf 10				2023	https://www.sagepub.com/books/10.4199/152132201783000001	Definition 5 for "risk" comes from p. 3 of NIST AI RMf 10.
45_CFR_46_2018_Requirements	2018 Requirements (2018 Common Rule)	United States Department of Health and Human Services (HHS)	45 CFR 46				2008	https://www.hhs.gov/ohrp/regulations-and-policy/regulations/45-cfr-46/2018-common-rule-regulatory-test/index.html	
cambridge_causative_2023	Cambridge Dictionary: causative	Cambridge	Cambridge Dictionary				2023	https://dictionary.cambridge.org/us/dictionary/english/causative	
lyons_causativity_2021	Causativity: Conceptualizing Causality: Perspectives on Contesting Algorithmic Decisions	Lyons, Henrietta, Eduardo Veloso, and Tim Miller	Proceedings of the ACM on Human-Computer Interaction				2021	https://doi.org/10.1145/3447094	
cambridge_causative_2021	Causative	Cambridge	Cambridge Dictionary				2023	https://dictionary.cambridge.org/us/dictionary/english/causative	
Saleh_Alkhalifa_Mt_in_Biotech	Supervised Machine Learning	Saleh Alkhalifa	Machine Learning in Biotechnology and Life Sciences: Build Machine Learning Models Using Python and Deploy Them on the Cloud	168-233			2022	https://www.sagepub.com/books/10.4199/152132201783000001	Definition 4 for "supervised learning" appears on page 88; definition 2 for "regression" also appears on page 88.
Schneider_McGraw_in_Flangan_and_McDonaldough_2018	The Cartel-Horn-Carroll Theory of Cognitive Abilities	W. Joel Schneider and Kevin S. McGraw, edited by Dawn P. Flanagan and Erin K. McDonaldough	Contemporary Intellectual Assessment: Theories, Tests, and Issues	73-163			2008	https://www.sagepub.com/books/10.4199/152132201783000001	Definition for "experts" appears on page 117.
Little_2013	The Measurement Model	Todd D. Little	Longitudinal Structural Equation Modeling	71-105			2003	https://www.sagepub.com/books/10.4199/152132201783000001	Definition for "measurement model" appears on page 103.
Merriam_Webster_executive	executive	Merriam-Webster	Merriam-Webster Dictionary				2021	https://www.merriam-webster.com/dictionary/executive	Definition for "executive" is taken from Merriam-Webster's definition of "executive" 2 of noun
Dorf_2018	Measurement and Instrumentation	Richard C. Dorf	The Engineering Handbook	151-960			2008	https://www.sagepub.com/books/10.4199/152132201783000001	Definitions for "error propagation" is taken from page 153 technically; the textbook offers the term as "propagation of uncertainty," which is synonymous with "error propagation."
Merriam_Webster_example	example	Merriam-Webster	Merriam-Webster				2021	https://www.merriam-webster.com/dictionary/example	
Merriam_Webster_ethic	ethic	Merriam-Webster	Merriam-Webster				2021	https://www.merriam-webster.com/dictionary/ethic	
Merriam_Webster_anthropomorphism	anthropomorphism	Merriam-Webster	Merriam-Webster Dictionary				2021	https://www.merriam-webster.com/dictionary/anthropomorphism	
berthold_grade_2020	Guide to Intelligent Data Science: How to Intelligent Make Use of Real Data	Berthold, Michael R., Christian Borgelt, Frank Hoppner, Frank Klawonn, and Rainer Stoop	Springer International Publishing				2020	https://doi.org/10.1007/978-3-030-35713-3	
alon_sarkar_human_2023	Human–AI Interactions in Public Sector Decision Making: "Automation Bias" and "Selective Adherence" to Algorithmic Advice.	Alon-Sarkar, Sar, and Madalina Banica	Journal of Public Administration Research and Theory	33	1	151-169	2023	https://doi.org/10.1007/s10919-022-00907-0	
hampton_addressing_2022	Addressing Harms Bias and Eliminating Bias in Health Professions Learning Environments: An Urgent Challenge.	Hampton, Holly J., Dana Levinson, Marc A. Nivet, and Stephen C. Schreiber	Academic Medicine: Admissions, Student Affairs, and Diversity	95	125		2020	https://doi.org/10.1097/ACM.0000000000000987	
garcia_computers_2019	Computers and Intractability: A Guide to the Theory of NP-Completeness	Donald Knuth	Computing	1981			1976	https://doi.org/10.1007/978-3-642-84854-0_1	
cambridge_intractability_2023	Intractability	Cambridge	Cambridge Dictionary				2023	https://dictionary.cambridge.org/us/dictionary/english/intractability	
law_policy_2023	Policy	Fernandes, George C. J.	The Law Dictionary	27	4	291-300	1992	https://www.sagepub.com/books/10.4199/152132201783000001	Definition of "qualitative research" is taken from page 2.
fernandez_residual_1992	Residual Analysis and Data Transformations: Important Tools in Statistical Analysis	Fernandes, George C. J.	HorScience	1-13			2008	https://doi.org/10.1007/978-1-4615-5200-7_1	Definition of "qualitative research" is taken from page 13.
Levy_OHR_intro	Introduction	Patricia Leahy	The Oxford Handbook of Qualitative Research	11-27			2004	https://doi.org/10.1007/978-1-4615-5200-7_1	
Barboza_2014	The scope and contribution of qualitative research	Rosanne S. Barboza	Introducing Qualitative Research: A Student's Guide, Second Edition				2020	https://doi.org/10.1007/978-3-030-35713-3	
Merriam_Webster_engineer	engineer	Merriam-Webster	Merriam-Webster Dictionary				2021	https://www.merriam-webster.com/dictionary/engineer	Definition takes from both the noun and verb definitions.
AI_Incident_Editors	Editor's Guide	AI Incident Editors	AI Incident Database				2023	https://www.merriam-webster.com/dictionary/editor	
interaction_context_2023	Context of Use	Interaction Design Foundation	Interaction Design Foundation				2023	https://www.interaction-design.org/design/book/the-glossary-of-human-computer-interaction/context-of-use	
AAAI_AI_and_Bias_2022_09	Artificial Intelligence and Bias + An Evaluation	M. Karakoulas and M. Kondyl	Artificial Intelligence and the Courts: Materials for Judges				2022	https://doi.org/10.1017/9781009320783	Definition for "racialized" taken from page 11.
Seth_Boden_2020	Start Here: A Primer on Diversity and Inclusion (Part 1 of 2)	Seth Boden	Harvard Business Publishing				2020	https://www.harvardbusiness.org/start-here-a-primer-on-diversity-and-inclusion-part-1-of-2	July 23, 2020
GWU_diversity_and_inclusion	Diversity and Inclusion	George Washington University	George Washington University Office for Diversity, Equity and Community Engagement				2021	https://diversity.gwu.edu/diversity-and-inclusion	
HUH_diversity_and_inclusion	Diversity and Inclusion Definitions	U.S. Department of Housing and Urban Development	U.S. Department of Housing and Urban Development				2021	https://www.hud.gov/program_offices/administration/about/diversity_inclusion/definitions	
Jameson_Covari_Powell	Reflexivity in quantitative research: A rationale and beginner's guide	Michelle K. Jameson, Gisela H. Govard, and Madeline Powell	Social and Personality Psychology Compass	e12735			2023	https://doi.org/10.1017/9781009320783	Definition for "reflexivity" appears on page 2. Jameson, Govard, and Powell ("Reflexivity in quantitative research: A rationale and beginner's guide") are paraphrasing Carl Willyng's ideas, and they are not the original source. They are providing a summary of what they are paraphrasing, and they are not providing a page where they are paraphrasing. So they are paraphrasing the general sense throughout the book, maybe 1 page at a time, and the original source for that definition is going to be fine with citing Jameson, Govard, and Powell as the "original" source for that definition.
Industrial_Network_Security_2018	Monitoring Enclaves	Eric D. Knapp and Joel Langill	Industrial Network Security: Securing Critical Infrastructure Networks for Smart Grid, SCADA, and Other Industrial Control Systems				2008	https://doi.org/10.1007/978-1-4615-5200-7_1	Definition for "retention limit" appears on page 243; appears as "data retention" in the book, words for "retention limit".
ChatGPT	Part 1	OpenAI	Merriam-Webster Dictionary				2023	https://www.merriam-webster.com/dictionary/part	We can use this to cite any moments that we use a ChatGPT-generated definition in lieu of a more authoritative source.
barreiro_explainable_2020	Explainable Artificial Intelligence (XAI) Concepts, Taxonomies, Opportunities and Challenges toward Responsible AI	Barreiro Arrieta, Alejandro, Natalia Diaz-Rodriguez, Javier Del Ser, Adrin Benitez, Shahn Tabib, Alberto Barbadillo, Salvador Garcia, et al.	Information Fusion	58	82-105		2020	https://doi.org/10.1016/j.inffus.2019.02.004	
jackman_informed_2008	Measurement	Simon Jackman	The Oxford Handbook of Political Methodology				2008	https://doi.org/10.1007/978-1-4615-5200-7_1	
Hannsberg_2019_Basel	1. Qualitative research methods: when to use them and how to judge them; 2. How to use and assess qualitative research methods	I. K. Hannsberg, M. Kirkman, and S. de Lacy; 2. Loraine Basset, Wolfgang Wick, and Christoph Gumbinger	1. Human Reproduction; 2. Neurological Research and Practice	1-31	1, 2, 3, 14	1, 2016; 2, 2020	2016	https://doi.org/10.1167/jnnp.3/498/2194757 ; 2. https://academic.oup.com/jnnp/article/10/1/309/5260136	The definition combines two sources into one. I (Danne) have organized this citation row using 1. to mark the first source, 2. to mark the second, and 3. to mark the third. Citation 1roughly corresponds to the first section of the book, which is about when to use qualitative methods and how to judge them. Human Reproduction, Volume 31, Issue 3, March 2016, Pages 498–501, doi:10.1093/humrep/dep306, https://doi.org/10.1093/humrep/dep306 . Citation 2roughly corresponds to the second section of the book, which is about how to use qualitative methods. Neurology, Res. Pract., 2, 24 (2020), https://doi.org/10.1101/240602-020-00060-2 . Citation 3roughly corresponds to the third section of the book, which is about how to assess qualitative methods. Neurosurg. Res. Pract., 2, 24 (2020), https://doi.org/10.1101/240602-020-00060-3 .
Russell_Branston_2020	1. Evaluation of qualitative research studies; 2. Mixing Methods: The Entry of Qualitative and Quantitative Approaches into the Research Process	I. Olythus K. Russell and David M. Gergen; 2. Julia Brattneim, Pamela Cole, Edited by Majed Khader, Lee Sung-Neoh, and Whistine Xianzhi Tang	1. Evidence-Based Nursing; 2. International Journal of Social Research Methodology: Introduction to Cyber Forensic Psychology: Understanding the Mind of the Cyber Dement Perpetrators	1, 6; 2, 8	136-140; 2, 10; 2, 2007	1, https://doi.org/10.1167/jnnp.3/498/2194757 ; 2, https://doi.org/10.1167/jnnp.3/498/2194757	2007	https://doi.org/10.1167/jnnp.3/498/2194757	
Panels_Gob_2021	Humans at the Weakest Link in Maintaining Cybersecurity: Building Cyber Resilience in Humans	Barroso Arrieta, Alejandro, Natalia Diaz-Rodriguez, Javier Del Ser, Adrin Benitez, Shahn Tabib, Alberto Barbadillo, Salvador Garcia, et al.	Information Fusion	58	82-105		2020	https://doi.org/10.1016/j.inffus.2019.02.004	
Amrie Jacobsen_2005	Total Information Awareness	Amrie Jacobsen	The Pentagon's Brain: An Uncensored History of DIA/DIA, America's Top-Secret Military Research Agency				2005	https://doi.org/10.1007/978-1-4615-5200-7_1	
Ben_Auffarth_2021	Online Learning for Time-Series	Ben Auffarth	Machine Learning for Time-Series with Python: Forecast, Predict, and Detect Anomalies with State-of-the-art Machine Learning Methods	209-250	2021	1, https://doi.org/10.1167/jnnp.3/498/2194757	2021	https://doi.org/10.1167/jnnp.3/498/2194757	Definitions 1 for "offline learning" and "online learning" both appear on page 210.
FWS_OPR_FW_I	602 FW, 1. Alternative Employment Program and Plans	Office for Human Resources of the U.S. Fish & Wildlife Service	U.S. Fish & Wildlife Service	1996					
Merriam_Webster_assessment	assessment	Merriam-Webster	Merriam-Webster Dictionary				2021	https://www.merriam-webster.com/dictionary/assessment	Definitions 1 for "anthropomorphism" appears on page 90; definition 2 begins on page 89 and ends on page 90.
Anthropomorphism_in_AI_AI	anthropomorphism	AI01 Neuroscience	Artificial Intelligence in Society	2	88-95	2020	2020	https://doi.org/10.1007/978-1-4615-5200-7_1	The definition for "anthropomorphism" appears on page 90.
OECD_Artificial_Intelligence_in_Society	The technical landscape	OECD	Artificial Intelligence in Society	19-34	2009	2009	2008	https://doi.org/10.1007/978-1-4615-5200-7_1	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
AI_in_Medical_Imaging_glossary	Glossary	Erik R. Rasmussen, Sergey Morozov, and Paul B. Algra, eds.	Artificial Intelligence in Medical Imaging: Opportunities, Applications and Risks	349-364	2020	2021	2020	https://doi.org/10.1007/978-1-4615-5200-7_1	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
DOI_Practical_Significance	Practical Significance in EEO Analysis Frequently Asked Questions	U.S. Department of Labor Office of Federal Contract Compliance Programs	Artificial Intelligence in Medical Imaging: Opportunities, Applications and Risks	349-364	2020	2021	2020	https://doi.org/10.1007/978-1-4615-5200-7_1	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
Cambridge_Dictionary_no_Signification	no signification	Cambridge Dictionary	Cambridge Dictionary				2021	https://doi.org/10.1007/978-1-4615-5200-7_1	The definition for "artificial narrow intelligence (ANI)" appears on page 22.
Signification_Theory	Signification Theory	N.A. Mavroli	International Encyclopedia of the Social & Behavioral Sciences	1407-1407	2008		2008	https://doi.org/10.1007/978-1-4615-5200-7_1	
Techopedia_kill_switch	Kill Switch	Techopedia	Techopedia						

ID	Title of article, chapter, or page	Author(s) and/or Editor(s)	Publication or website (either the main domain or major subdomain)	Volume	Issue	Page(s)	Year	URL	Notes
Wikipedia_Decision-making	Decision-making	Wikipedia	Wikipedia	20	10	e4977	2009	https://en.wikipedia.org/w/index.php?title=Decision-making&oldid=3761990	Check out the <i>Nurs Science of Management Decision</i> (977) to try to locate the original source of the definition.
Shevin,_et._al._2019	The limits of machine intelligence	Henry Shevin, Karina Vold, Matthew Crosby, and Marla Helms	EMBO Reports				2022	https://www.euro.embopress.org/guidelines/american-disabilities-act-and-use-software-algorithms-and-artificial-intelligence	Definition for "screen out" taken from this page.
EEOC,_ADA,_AI	The Americans with Disabilities Act and the Use of Software, Algorithms, and Artificial Intelligence to Assess Job Applicants and Employees	U.S. Equal Employment Opportunity Commission	U.S. Equal Employment Opportunity Commission				2023	https://www.eeoc.gov/policy/guidance/american-disabilities-act-and-use-software-algorithms-and-artificial-intelligence	
Merriam-Webster,_screen_out	screen out	Merriam-Webster	Merriam-Webster Dictionary				2023	https://www.merriam-webster.com/dictionary/screen%20out	Definition for "screen out" taken from this page.
Merriam-Webster,_Experiment,_2023	Experiment	American Psychological Association (APA)	APA Dictionary of Psychology				2023	https://dictionary.apa.org/experiment	
AI,_AI,_Laboratory,_One_arch	laboratory research	American Psychological Association (APA)	APA Dictionary of Psychology				2023	https://dictionary.apa.org/laboratory-research	
UNONC_Glossary,_QA,_P	Glossary of Terms for Quality Assurance and Good Laboratory Practices	Laboratory and Scientific Section of the United Nations Office on Drugs and Crime	Glossary of Terms for Quality Assurance and Good Laboratory Practices				2009	https://www.unodc.org/documents/dec46/ST_NAP_20_E.pdf	
World_Wide_Words,_In_si_leo	in situ	World Wide Words	World Wide Words					https://www.worldwidewords.org/words/wi.html	
Bassini,_Eraffa,_Evard	An Appraisal of Human Experimentation in International Law and Practice: The Need for International Regulation of Human Experimentation	M. Cheif, J. Bassini, Thomas G. Baffes, and John T. Evard	Journal of Criminal Law and Criminology	72	4	1507-1666	1981	https://scholarcommons.law.northwestern.edu/cgi/content.cgi?article=972&context=jclc	
Merriam-Webster,_amplify	amplify	Neha Gupta, Suneet K. Gupta, Rajesh K. Pathak, Vanita Jain, Parisa Rashti, and Jagjit S. Suri	Artificial Intelligence Review	55		4750-4808	2022	https://link.springer.com/article/10.1007/s10618-021-01086-x	
Gupta,_et._al._HAR_2022	Human activity recognition in artificial intelligence framework: a narrative review	Merriam-Webster	Merriam-Webster Dictionary					https://www.merriam-webster.com/dictionary/amplify	
Merriam-Webster,_annotate	annotate	Scott Freeman, Sarah L. Eddy, Miles McDonough, Michelle K. Smith, Naundra Overfield, Hammah Roth, and Mary Pat Werdereth	PNAS	III	23	8410-8415	2004	https://www.pnas.org/doi/full/10.1073/pnas.1000010101	
Freeman,_et._al._2024	Active learning increases student performance in science, engineering, and mathematics	Anderson Monken, William Amphlett, Flea Hubertson, Uma Krishnamoorthy, and Gagan Bhatnagar	AI Assurance: Towards Trustworthy, Explainable, Safe, and Ethical AI	376-428			2022	https://www.pnas.org/doi/10.1073/pnas.2211404119	The definition for "large language model (LLM)" appears on page 376. This book was edited by Feras A. Intanah and Laura Freeman.
AI,_Assurance,_2022	Assuring AI methods for economic policymaking	Joshua D. Greene and Daniel M. Tversky	Applied Research Laboratory for Intelligence and Security (ARLIS)				2023	https://www.pnas.org/doi/10.1073/pnas.2211404119	We have this PDF, but I do not think it is readily available online. See also https://www.arlis.edu/sites/default/files/2022-03/No_AI_In_Traffic_FinalReport%20(1).pdf .
Poore,_Lawrence,_ARLIS,_2_023-04	AI Engineering: An Academic Research Roadmap	Zhenli X, Nguyen L, Liu F, Frieder, Tiansheng Yu, Dan Su, Yan Xu, Etsuko Ishii, Ye Bi Bang, Andrea Madotto, and Pascale Fung	ACM Computing Surveys	55	12	1-38	2023	https://dl.acm.org/doi/10.1145/3577379	Definition for "hallucination" is taken from page 2483.
Survey_of_Hallucination,_n_NLG	Survey of Hallucination in Natural Language Generation	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/content-validity	
APA,_clustering	clustering	American Psychological Association (APA)	ISO Online Browsing Platform				2008	https://www.iso.org/obp/014/-/isoiec/19040-11ed-2008	
APA,_content_validity	content validity	ISO	ISO American Psychological Association (APA)					https://dictionary.apa.org/criterion-validity	
ISO_9241-2016	Ergonomics of human-system interaction – Part II: Usability: Definitions and concepts	ISO	ISO American Psychological Association (APA)					https://dictionary.apa.org/data-analysis	This term in the APA dictionary is "data analysis"; the term in our glossary is "data analysis". The terms are not necessarily synonymous, but we are including the "data analysis" definition in with "data analysis".
APA,_data_analysis	data analysis	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/decentralization	
APA,_decision_making	decision making	Mark R. Lehto and Gaurav Nanda	Handbook of Human Factors and Ergonomics, Fifth Edition	159-202			2021	https://www.wiley.com/9781119536003	The editors of this book are Gavriel Salvendy and Waldemar Karwowski
Lehto,_Nanda,_2021	Decision-Making Models, Decision Support, and Problem Solving	Jonathan Baron	Thinking and Deciding				2008	https://www.wiley.com/9780470422441	Page 6 also cited here: https://www.wiley.com/9780470422441.html/
Baron,_Thinking_and_Deciding		Joseph R. Biden Jr.	The White House				2021	https://www.whitehouse.gov/presidential-actions/2020/08/25/execute-order-on-diversity-equality-inclusion-and-accessibility-in-the-federal-workforce	This executive order was published on June 25, 2021.
ED,_DEIA,_2021	Executive Order on Diversity, Equity, Inclusion, and Accessibility in the Federal Workforce	Merriam-Webster	Merriam-Webster Dictionary					https://www.merriam-webster.com/dictionary/decentralization	
APA,_external_validity	external validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://www.merriam-webster.com/dictionary/decentralization	
CSRC,_false_negativity	False Negativity	NIST CSRC	Information Technology Laboratory Computer Security Resource Center Glossary					https://www.merriam-webster.com/dictionary/decentralization	
CSRC,_false_positive	False Positivity	NIST CSRC	Information Technology Laboratory Computer Security Resource Center Glossary					https://www.merriam-webster.com/dictionary/decentralization	
Wilk,_Mata,_2022	Cognitive Bias	A. Wilk and M. Mata	Empirical Methods in Behavioral Research	1	538-535	2002		https://dl.acm.org/doi/10.1145/2547204	Edited by V.S. Ramachandran
APA,_internal_response	internal response	John W. Cresswell and Vicki L. Plano Clark	Artificial Intelligence in Education Database					https://dictionary.apa.org/decentralization	
APA,_integrity	integrity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/decentralization	
APA,_internal_validity	internal validity	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/decentralization	
APA,_learning	learning	American Psychological Association (APA)	APA Dictionary of Psychology					https://dictionary.apa.org/decentralization	
McAfee,_Policy	The McAfee Fallacy	Jonathan Baron	The McAfee Fallacy				2003	https://www.merriam-webster.com/dictionary/decentralization	I don't know which chapter and page this citation comes from; all I know is that it's somewhere in this book.
Cresswell,_Clark,_mixed,_method	observation	John W. Cresswell and Vicki L. Plano Clark	Designing and Conducting Mixed Methods Research, Third Edition				2007	https://www.merriam-webster.com/dictionary/decentralization	
Merriam-Webster,_observation	observation	American Psychological Association (APA)	APA Dictionary of Psychology					https://www.merriam-webster.com/dictionary/decentralization	
Glossary_of_Statistical_Terms	observation	Philip B. Stark	Statistical Terms				2009	https://www.stat.berkeley.edu/~stark/Stat101/test/gloss.htm	
Wikipedia,_RMSE	Root-mean-square-deviation	Wikipedia	Wikipedia					https://www.merriam-webster.com/dictionary/decentralization	
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[1] Add citation to citations sheet and only list ID in these columns

[2] Make sure the spelling matches another term (value in A column)