

AI Glossary Master List

All Ages | Professional Reference | 44 terms

You are the thinker.
AI is the tool.

Term	Definition
Algorithm	A defined sequence of instructions or rules that a computer follows to solve a problem or complete a task.
Artificial Intelligence (AI)	Software systems designed to perform tasks that typically require human cognitive abilities, such as pattern recognition, language processing, and decision-making.
Autonomous System	A system capable of performing tasks or making decisions without direct human intervention.
Bias (in AI)	Systematic errors in AI outputs caused by unrepresentative training data, flawed model design, or assumptions embedded during development.
Chatbot	A software application that uses natural language processing to simulate human conversation.
Classification	An AI task that assigns input data to predefined categories based on learned patterns.
Computer Vision	A field of AI focused on enabling computers to interpret visual inputs such as images and video.
Data	Structured or unstructured information collected, stored, and processed by computer systems.
Dataset	A curated collection of data used to train, validate, or test an AI model.
Deep Learning	A subset of machine learning that uses multi-layered neural networks to model complex patterns.
Deepfake	Synthetic media generated by AI that realistically replaces a person's likeness or voice.
Ethical AI	The practice of designing and deploying AI systems that are fair, transparent, and accountable.
Facial Recognition	An AI technology that identifies or verifies individuals by analyzing facial features.
Foundation Model	A large-scale AI model trained on broad data that can be adapted for many tasks.

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Generative AI	AI systems capable of creating new content based on patterns learned from training data.
GPT	A family of large language models developed by OpenAI that generate human-like text.
Hallucination	When an AI model generates plausible but factually incorrect or fabricated information.
Human-in-the-Loop	A system design where human judgment is integrated into AI decision-making.
Image Recognition	An AI capability that identifies objects, people, or scenes within digital images.
Input	The data or instruction provided to an AI system as the basis for generating a response.
Large Language Model (LLM)	A neural network trained on massive text corpora that generates and reasons about language.
Machine Learning	A branch of AI where systems improve through exposure to data without explicit programming.
Model	A mathematical representation trained on data to make predictions or perform tasks.
Natural Language Processing	The branch of AI enabling computers to understand and generate human language.
Neural Network	A computing architecture of interconnected nodes organized in layers that process information.
Output	The response or content generated by an AI system after processing an input.
Parameter	A numerical value within a model adjusted during training to improve accuracy.
Pattern Recognition	The ability of an AI system to identify regularities within data.

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Prediction	An output representing the model's best estimate given the input.
Prompt	A text instruction provided to an AI system that guides its response.
Prompt Engineering	The practice of designing prompts to optimize AI outputs.
Recommendation System	An AI system that suggests content based on user behavior or preferences.
Reinforcement Learning	A training approach where an AI learns through trial and error with rewards.
Responsible AI	A framework prioritizing fairness, transparency, accountability, and human well-being.
Sentiment Analysis	An NLP technique that categorizes emotional tone in text.
Supervised Learning	A machine learning approach where a model learns from labeled training data.
Token	A unit of text that a language model processes.
Training	The process of exposing an AI model to data to learn patterns.
Training Data	The dataset used to teach an AI model patterns and relationships.
Transformer	A neural network architecture using self-attention mechanisms for sequential data.
Transparency	The degree to which an AI system's processes are understandable and explainable.
Turing Test	A test evaluating whether a machine's responses are indistinguishable from a human's.
Unsupervised Learning	A machine learning approach where a model identifies patterns in unlabeled data.
Voice Assistant	An AI application that interprets spoken commands and provides voice responses.