

# AI Glossary Mas

All Ages

Professional Reference

44 terms

B&amp;W Edition

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

You are the thinker.

AI is the tool.

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<b>Facial Recognition</b>	An AI technology that identifies or verifies individuals by analyzing facial features.
<b>Foundation Model</b>	A large-scale AI model trained on broad data that can be adapted for many tasks.
<b>Generative AI</b>	AI systems capable of creating new content based on patterns learned from training data.
<b>GPT</b>	A family of large language models developed by OpenAI that generate human-like text.
<b>Hallucination</b>	When an AI model generates plausible but factually incorrect or fabricated information.
<b>Human-in-the-Loop</b>	A system design where human judgment is integrated into AI decision-making.
<b>Image Recognition</b>	An AI capability that identifies objects, people, or scenes within digital images.
<b>Input</b>	The data or instruction provided to an AI system as the basis for generating a response.
<b>Large Language Model (LLM)</b>	A neural network trained on massive text corpora that generates and reasons about language.
<b>Machine Learning</b>	A branch of AI where systems improve through exposure to data without explicit programming.
<b>Model</b>	A mathematical representation trained on data to make predictions or perform tasks.
<b>Natural Language Processing</b>	The branch of AI enabling computers to understand and generate human language.

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<b>Neural Network</b>	A computing architecture of interconnected nodes organized in layers that process information.
<b>Output</b>	The response or content generated by an AI system after processing an input.
<b>Parameter</b>	A numerical value within a model adjusted during training to improve accuracy.
<b>Pattern Recognition</b>	The ability of an AI system to identify regularities within data.
<b>Prediction</b>	An output representing the model's best estimate given the input.
<b>Prompt</b>	A text instruction provided to an AI system that guides its response.
<b>Prompt Engineering</b>	The practice of designing prompts to optimize AI outputs.
<b>Recommendation System</b>	An AI system that suggests content based on user behavior or preferences.
<b>Reinforcement Learning</b>	A training approach where an AI learns through trial and error with rewards.
<b>Responsible AI</b>	A framework prioritizing fairness, transparency, accountability, and human well-being.
<b>Sentiment Analysis</b>	An NLP technique that categorizes emotional tone in text.
<b>Supervised Learning</b>	A machine learning approach where a model learns from labeled training data.

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<b>Token</b>	A unit of text that a language model processes.
<b>Training</b>	The process of exposing an AI model to data to learn patterns.
<b>Training Data</b>	The dataset used to teach an AI model patterns and relationships.
<b>Transformer</b>	A neural network architecture using self-attention mechanisms for sequential data.
<b>Transparency</b>	The degree to which an AI system's processes are understandable and explainable.
<b>Turing Test</b>	A test evaluating whether a machine's responses are indistinguishable from a human's.
<b>Unsupervised Learning</b>	A machine learning approach where a model identifies patterns in unlabeled data.
<b>Voice Assistant</b>	An AI application that interprets spoken commands and provides voice responses.

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