

AI Jargon Common Artificial Intelligence Terms



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Glossary of AI Terms

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Algorithm

An algorithm is a set of instructions or rules machines follow to solve a problem or accomplish a task.

Artificial Intelligence

AI is the ability of machines to mimic human intelligence and perform tasks commonly associated with intelligent beings.

Artificial General Intelligence (AGI)

https://youtu.be/o6XiGJQ6_dQ (https://youtu.be/o6XiGJQ6_dQ)

AGI, also called strong AI, is a type of AI that possesses advanced intelligence capabilities similar to human beings. While artificial general intelligence was once primarily a theoretical concept and a rich playground for research, many AI developers now believe humanity will reach AGI sometime in the next decade.,

Backpropagation

Backpropagation is an algorithm neural networks use to improve their accuracy and performance. It works by calculating error in the output, propagating it back through the network, and adjusting the weights and biases of connections to get better results.

Bias

AI bias refers to the tendency of a model to make certain predictions more often than others. Bias can be caused due to the training data of a model or its inherent assumptions.

Big Data

Big data is a term that describes datasets that are too large or too complex to process using traditional methods. It involves analyzing vast sets of information to extract valuable insights and patterns to improve decision-making.

Chatbot

A chatbot is a program that can simulate conversations with human users through text or voice commands. Chatbots can understand and generate human-like responses, making them a powerful tool for customer service applications.

Cognitive Computing

Cognitive computing is an AI field focusing on developing systems that imitate human cognitive abilities, such as perception, learning, reasoning, and problem-solving.

Computational Learning Theory

A branch of artificial intelligence that studies algorithms and mathematical models of machine learning. It focuses on the theoretical foundations of learning to understand how machines can acquire knowledge, make predictions, and improve their performance.

Computer Vision

Computer vision refers to the ability of machines to extract visual information from digital images and videos. Computer vision algorithms are widely used in applications like object detection, face recognition, medical imaging, and autonomous vehicles.

Data Mining

Data mining is the process of acquiring valuable knowledge from large datasets. It uses statistical analysis and machine learning techniques to identify patterns, relationships, and trends in data to improve decision-making.

Data Science

Data science involves extracting insights from data using scientific methods, algorithms, and systems. It's more comprehensive than data mining and encompasses a wide range of activities, including data collection, data visualization, and predictive modeling to solve complex problems.

Deep Learning

Deep learning is a branch of AI that uses artificial neural networks with multiple layers (interconnected nodes within the neural network) to learn from vast amounts of data. It enables machines to perform complex tasks, such as natural language processing, image, and speech recognition.

Generative AI

Generative AI describes artificial intelligence systems and algorithms that can create text, audio, video, and simulations. These AI systems learn patterns and examples from existing data and use that knowledge to create new and original outputs.

Hallucination

AI hallucination refers to the instances where a model produces factually incorrect, irrelevant, or nonsensical results. This can happen for several reasons, including lack of context, limitations in training data, or architecture.

<https://youtu.be/cfqtfvWOfg0> (<https://youtu.be/cfqtfvWOfg0>)

Hyperparameters

Hyperparameters are settings that define how an algorithm or a machine learning model learns and behaves. Hyperparameters include learning rate, regularization strength, and the number of hidden layers in the network. You can tinker with these parameters to fine-tune the model's performance according to your needs.

Large Language Model (LLM)

An LLM is a machine learning model trained on vast amounts of data and uses supervised learning to produce the next token in a given context to produce meaningful, contextual responses to user inputs. The word "large" indicates the use of extensive parameters by the language model. For example, GPT models use

hundreds of billions of parameters to carry out a wide range of NLP tasks.

Machine Learning

Machine learning is a way for machines to learn and make predictions without being explicitly programmed. It's like feeding a computer with data and empowering it to make decisions or predictions by identifying patterns within the data.

Neural Network

A neural network is a computational model inspired by the human brain. It consists of interconnected nodes, or neurons, organized in layers. Each neuron receives input from other neurons in the network, allowing it to learn patterns and make decisions. Neural networks are a key component in machine learning models that enable them to excel in a wide array of tasks.

Natural Language Generation (NLG)

Natural language generation deals with the creation of human-readable text from structured data. NLG finds applications in content creation, chatbots, and voice assistants.

Natural Language Processing (NLP)

Natural language processing is the ability of machines to interpret, understand, and respond to human-readable text or speech. It's used in various applications, including sentiment analysis, text classification, and question answering.

OpenAI

OpenAI is an artificial intelligence research laboratory, founded in 2015 and based in San Francisco, USA. The company develops and deploys AI tools that can appear to be as smart as humans. OpenAI's best-known product, ChatGPT, was released in November 2022 and is heralded as the most advanced chatbot for its ability to provide answers on a wide range of topics.

<https://openai.com/> (<https://openai.com/>)

Pattern Recognition

Pattern recognition is the ability of an AI system to identify and interpret patterns in data. Pattern recognition algorithms find applications in facial recognition, fraud detection, and speech recognition.

Recurrent Neural Network (RNN)

A type of neural network that can process sequential data using feedback connections. RNNs can retain the memory of previous inputs and are suitable for tasks like NLP and machine translation.

Reinforcement Learning

Reinforcement learning is a machine learning technique where an AI agent learns to make decisions through interactions by trial and error. The agent receives rewards or punishments from an algorithm based on its actions, guiding it to enhance its performance over time.

Supervised Learning

A machine learning method where the model is trained using labeled data with the desired output. The model

generalizes from the labeled data and makes accurate predictions on new data.

Tokenization

Tokenization is the process of splitting a text document into smaller units called tokens. These tokens can represent words, numbers, phrases, symbols, or any elements in text that a program can work with. The purpose of tokenization is to make the most sense out of unstructured data without processing the entire text as a single string, which is computationally inefficient and difficult to model.

Turing Test

Introduced by Alan Turing in 1950, this test evaluates a machine's ability to exhibit intelligence indistinguishable from that of a human. The Turing test involves a human judge interacting with a human and a machine without knowing which is which. If the judge fails to distinguish the machine from the human, the machine is considered to have passed the test.

<https://youtu.be/Qbp3LJvcX38> (<https://youtu.be/Qbp3LJvcX38>)

Unsupervised Learning

A machine learning method where the model makes inferences from unlabeled datasets. It discovers patterns in the data to make predictions on unseen data.

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