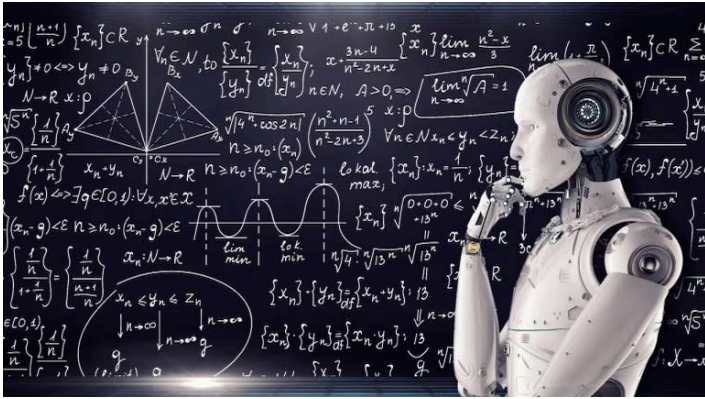


Artificial Intelligence | An Introduction

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Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and act like humans. It involves the development of algorithms and computer programs that can perform tasks that typically require human intelligence such as visual perception, speech recognition, decision-making, and language translation. AI has the potential to revolutionize many industries and has a wide range of applications, from virtual personal assistants to self-driving cars.

Before leading to the meaning of artificial intelligence let understand what is the meaning of Intelligence.

Intelligence: The ability to learn and solve problems. This definition is taken from webster's Dictionary.

Intelligence, as we know, is the ability to acquire and apply knowledge. Knowledge is the information acquired through experience. Experience is the knowledge gained through exposure(training). Summing the terms up, we get artificial intelligence as the "copy of something natural(i.e., human beings) 'WHO' is capable of acquiring and applying the information it has gained through exposure."

Intelligence is composed of:

- Reasoning
- Learning
- Problem-Solving
- Perception
- Linguistic Intelligence

Many tools are used in AI, including versions of search and mathematical optimization, logic, and methods based on probability and economics. The AI field draws upon computer science, mathematics, psychology, linguistics, philosophy, neuroscience, artificial psychology, and many

The main focus of artificial intelligence is towards understanding human behavior and performance. This can be done by creating computers with human-like intelligence and capabilities. This includes natural language processing, facial analysis and robotics. The main applications of AI are in military, healthcare, and computing; however, it's expected that these applications will start soon and become part of our everyday lives.

Uses of Artificial Intelligence :

Artificial Intelligence has many practical applications across various industries and domains, including:

Healthcare: AI is used for medical diagnosis, drug discovery, and predictive analysis of diseases

Finance: AI helps in credit scoring, fraud detection, and financial forecasting.

Transportation: AI is used for autonomous vehicles, traffic prediction, and route optimization

Security: AI is used for facial recognition, intrusion detection, and cybersecurity threat analysis.

Education: AI is used for personalized learning, adaptive testing, and intelligent tutoring systems.

Applications of AI include Natural Language Processing ,Gaming ,Speech Recognition ,Vision Systems , Healthcare, Automotive, etc.

AI Performance Evaluation Methods

Evaluation Method	Description
Benchmarking	Creating standardized tasks, data sets, and metrics for evaluating AI performance
Competition-Based Evaluation	Using competitions to evaluate and rank the performance of AI models.
Manual Evaluation	Expert-based evaluation of AI performance.

Videos

Videos



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