

Artificial intelligence (AI) is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans. Leading AI textbooks define the field as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chances of success.

The term "artificial intelligence" had previously been used to describe machines that mimic and display "human" cognitive functions such as "learning" and "problem-solving".

AI applications include advanced web search engines (e.g., Google Search), recommendation systems (used by YouTube and Amazon), understanding human speech (such as Siri or Alexa), self-driving cars (e.g., Tesla), automated decision-making, and other tasks that were once thought to require human intelligence.