

What is Artificial Intelligence (AI)?

Artificial Intelligence (AI) is a branch of computer science that enables machines to mimic human intelligence. It involves developing algorithms and models that allow computers to learn from data, recognize patterns, make decisions, and solve complex problems. AI encompasses various subfields, including machine learning, deep learning, natural language processing, and computer vision.

AI is widely used in applications such as virtual assistants (e.g., Siri, Alexa), recommendation systems (e.g., Netflix, Amazon), autonomous vehicles, medical diagnosis, and robotics. It has the potential to revolutionize industries by improving efficiency, automating tasks, and enhancing human capabilities.

Despite its advantages, AI also raises ethical concerns regarding privacy, bias, and job displacement. As AI continues to evolve, ensuring responsible and fair use remains a critical challenge for researchers and policymakers.