

Artificial intelligence (AI) is a field of computer science that focuses on developing machines capable of performing tasks that typically require human intelligence. It encompasses various techniques, including machine learning and deep learning, which enable systems to learn from data and improve their performance over time. AI is revolutionizing diverse sectors, from healthcare where it assists in diagnoses and drug discovery, to finance where it helps with fraud detection and personalized recommendations. While AI promises advancements and efficiency across many domains, it also raises important ethical considerations concerning job displacement, algorithmic bias, data privacy, and the responsible use of autonomous systems. Addressing these challenges through careful development and regulation is crucial to ensure that AI benefits society as a whole.