

Title: *Artificial Intelligence Overview*

Content:

Artificial Intelligence (AI) is a branch of computer science focused on creating systems that can perform tasks that normally require human intelligence. These tasks include learning, reasoning, problem-solving, perception, and language understanding.

Machine Learning (ML) is a subset of AI that enables systems to learn from data without being explicitly programmed. Deep Learning is a further subset of ML that uses neural networks with multiple layers to analyze complex patterns in large datasets.

AI is widely used in applications such as healthcare, finance, autonomous vehicles, recommendation systems, and natural language processing. In healthcare, AI helps in disease detection and medical imaging. In finance, it assists with fraud detection and algorithmic trading.

Despite its benefits, AI also raises ethical concerns including data privacy, bias in algorithms, and job displacement. Responsible AI development focuses on transparency, fairness, and accountability.

The future of AI aims to create more general and explainable systems that can collaborate effectively with humans.