

Summary

- 1. Introduction to Artificial Intelligence

Artificial Intelligence (AI) is a field of computer science focused on building smart machines capable of performing tasks that typically require human intelligence.

- History of AI

The concept of AI dates back to ancient times, but the field began formally in the 1950s with the development of early neural networks and symbolic reasoning systems.

- Major milestones include the development of expert systems in the 1980s and the resurgence of neural networks in the 2010s.³

- Machine Learning Basics

Machine learning is a subset of AI that focuses on algorithms that allow computers to learn from data.

- Deep Learning and Neural Networks

Deep learning is a subset of machine learning based on artificial neural networks with multiple layers.

- It has led to significant advancements in areas like image recognition, natural language processing, and speech recognition.⁵

- Applications of AI

AI is used in various domains including healthcare, finance, automotive, entertainment, and customer service.