

# Summary

## - 1. Introduction to Artificial Intelligence

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn.

- These machines can perform tasks such as speech recognition, decision-making, visual perception, and language translation.

- The field of AI is vast and includes subfields such as machine learning, where algorithms learn from data to make predictions or decisions, and deep learning, which uses neural networks with many layers.

- AI is transforming industries such as healthcare, finance, and transportation by providing smarter, data-driven solutions.

- However, AI also brings challenges, such as ethical concerns, job displacement, and data privacy issues.