

Understanding AI

1. Introduction

Artificial Intelligence (AI) is the ability of machines to mimic human intelligence.

1.1 What is AI?

AI refers to systems designed to perform tasks that usually require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.

1.1.1 History of AI

The term “Artificial Intelligence” was coined in 1956 at a Dartmouth conference. Early AI research focused on symbolic methods and rule-based reasoning.

1.2 Types of AI

There are three main types of AI:

- Narrow AI
- General AI
- Superintelligent AI

2. Applications ← (H1)

Artificial Intelligence is being used in various domains to automate tasks and enhance decision-making.

2.1 AI in Healthcare

AI helps in diagnosing diseases, suggesting treatments, and personalizing patient care.

2.1.1 Diagnostics

Machine learning models can identify patterns in medical images to detect cancer, brain disorders, and more.

2.1.2 Drug Discovery

AI speeds up the drug development process by predicting molecular behavior.

3. Challenges

Despite progress, AI faces ethical concerns, bias issues, and lack of transparency.

3.1 Ethics of AI

Questions arise about AI decision-making, surveillance, and accountability.