

## Document Title: Introduction to Artificial Intelligence

---

### 🌟 What is Artificial Intelligence?

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think and learn like humans. It encompasses a wide range of technologies such as machine learning, natural language processing, computer vision, and robotics.

---

### 🔍 Applications of AI

1. **Healthcare** – Diagnosing diseases, personalized treatment, drug discovery.
  2. **Finance** – Fraud detection, algorithmic trading, credit scoring.
  3. **Retail** – Chatbots, product recommendations, customer behavior prediction.
  4. **Transportation** – Self-driving cars, traffic pattern analysis.
  5. **Education** – Smart tutoring systems, automated grading.
- 

### 🧠 Types of AI

- **Narrow AI:** Performs specific tasks (e.g., virtual assistants).
  - **General AI:** Can perform any intellectual task a human can do (still theoretical).
  - **Superintelligent AI:** Surpasses human intelligence (a future concept).
- 

### 📈 Market Growth

The global AI market size was valued at **USD 150 billion in 2023** and is projected to grow at a **CAGR of 37.3% from 2024 to 2030**, driven by innovation and demand across industries.

---

### Summary

Artificial Intelligence is transforming the world across every sector. From improving customer service with chatbots to enabling medical breakthroughs, AI is the backbone of the Fourth Industrial Revolution.

---

**Author:** Vibhu Preetham

**Date:** July 2025

