

# Artificial Intelligence Course

## Introduction to Artificial Intelligence (AI)

AI is the simulation of human intelligence in machines programmed to think and learn.

## Types of AI

- Narrow AI: Designed for specific tasks (e.g., chatbots).
- General AI: Hypothetical machines with human-like intelligence.

## Machine Learning Basics

Machines learn from data using algorithms.

### Types:

- Supervised learning
- Unsupervised learning
- Reinforcement learning

## Common Algorithms

- Decision trees
- Neural networks
- Support vector machines

## Applications of AI

Speech recognition, image classification, recommendation systems.

## Practice Exercises

- Understand linear regression concept.
- Build a simple classifier with sample data.
- Explore AI tools like TensorFlow or scikit-learn.