

## Introduction to Artificial Intelligence

Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning, reasoning, and self-correction.

### Types of AI:

1. Narrow AI - AI that is programmed to perform a single task.
2. General AI - AI with generalized human cognitive abilities.
3. Superintelligent AI - AI that surpasses human intelligence.

### Applications of AI:

- Natural Language Processing
- Robotics
- Expert Systems
- Computer Vision

Machine Learning is a subset of AI. It provides systems the ability to automatically learn and improve from experience without being explicitly programmed.

### Types of Machine Learning:

1. Supervised Learning
2. Unsupervised Learning
3. Reinforcement Learning

### Ethics in AI:

The growth of AI brings ethical concerns including job displacement, bias in algorithms, and control

over intelligent systems.

#### Conclusion:

AI continues to grow rapidly and is expected to revolutionize industries, enhance human life, and introduce new challenges.