

Introduction to Machine Learning

Machine Learning is a subset of artificial intelligence that focuses on developing algorithms that can learn from data and make predictions or decisions without being explicitly programmed to do so.

Key Types of Machine Learning:

1. Supervised Learning: Uses labeled training data
2. Unsupervised Learning: Finds patterns in unlabeled data
3. Reinforcement Learning: Learns through interaction and rewards

Applications include image recognition, natural language processing, recommendation systems, and autonomous vehicles.