Introduction to Machine Learning

Machine learning is a branch of artificial intelligence (AI) focused on building systems that can learn from and make decisions based on data.

# Supervised Learning

In supervised learning, models are trained on labeled data. Examples include Linear Regression, Random Forest, and Support Vector Machines (SVM).

# Unsupervised Learning

Unsupervised learning involves finding hidden patterns in unlabeled data. Examples include K-means Clustering and PCA.

# Real-World Applications

Fraud Detection, Customer Segmentation, and Spam Email Filtering.