



AI+ Wed Curriculum

This is an introductory course to Machine Learning. It gives an overview of many concepts, techniques and algorithms in machine learning for a beginner. Practical demonstrations of the concepts are done in Python.

Week 1: Introduction to Machine Learning

Types of ML

Examples of ML

Week 2: Supervised ML: Regression

- Data Preprocessing
 - Introduction to Regression
 - Simple Linear Regression

Week 3: Other Regression Algorithms (SVRegression, Decision Tree, Polynomial Regression etc.)

Evaluation of Regression Models Performance

Week 4: Supervised ML: Classification

Classification intuition and Algorithms

Week 5: Other Classification Algorithms (SVM, Decision Tree, Logistic Regression, K-NN etc.)

Evaluation of Classification Models Performance

Week 6: Unsupervised ML: Clustering

Clustering Algorithms (K-Means and Hierarchical Clustering)

Week 7: Association Rule Learning

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Week 8: Reinforcement Learning

Upper Confidence Bound (UCB)

Week 9: Introduction to Deep Learning

ANN/ CNN with examples

Week 10: Projects Presentation