

Machine Learning Course Content Python



Machine Learning with Python Course Contents

Machine Learning vs Statistical Modeling & Supervised vs Unsupervised Learning

- ✦ Machine Learning Languages, Types, and Examples
- ✦ Machine Learning vs Statistical Modelling
- ✦ Supervised vs Unsupervised Learning
- ✦ Supervised Learning Classification
- ✦ Unsupervised Learning

Supervised Learning I

- ✦ K-Nearest Neighbors
- ✦ Decision Trees
- ✦ Random Forests
- ✦ Reliability of Random Forests
- ✦ Advantages & Disadvantages of Decision Trees

Supervised Learning II

- ✦ Regression Algorithms
- ✦ Model Evaluation
- ✦ Model Evaluation: Overfitting & Underfitting
- ✦ Understanding Different Evaluation Models

Unsupervised Learning

- ✦ K-Means Clustering plus Advantages & Disadvantages
- ✦ Hierarchical Clustering plus Advantages & Disadvantages
- ✦ Measuring the Distances Between Clusters - Single Linkage Clustering
- ✦ Measuring the Distances Between Clusters - Algorithms for Hierarchy Clustering
- ✦ Density-Based Clustering

Dimensionality Reduction & Collaborative Filtering

- ✦ Dimensionality Reduction: Feature Extraction & Selection
- ✦ Collaborative Filtering & Its Challenges



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