

## [L4-ML] Introduction to Machine Learning Algorithms Online

Session 1	
Introduction	Use Case Collection Supervised vs Unsupervised Learning Classification vs Numerical Prediction Problems Different Steps of the CRISP DM cycle
Decision Tree	Decision Tree Algorithm Evaluation of Classification Models
Session 2	
Regression Models & Ensemble Models	Linear Regression Algorithm Evaluation of a Numerical Prediction Model Regression Tree Algorithm Ensemble Models: Bagging & Boosting
Logistic Regression	Logistic Regression Algorithm and Likelihood Function Gradient Descent
Session 3	
Neural Networks	Biological vs Artificial Neuron Feedforward Network Backpropagation Introduction to RNNs and CNNs
Recommendation Engines	A-priori Algorithm Collaborative Filtering
Session 4	
Clustering	k-Means Hierarchical Clustering DB-SCAN
Data Preparation	Dimensionality Reduction Outlier Detection Missing Value Imputation Feature Selection
Session 5	
Wrap Up Session	Discussion of last Exercise and Q&A