

[L4-ML] Introduction to Machine Learning Algorithms

Introduction to KNIME	10:00 – 10:45	Use Case Collection Supervised vs Unsupervised Learning Classification vs Numerical Prediction Problems Different Steps of the Data Science Life Cycle
Decision Tree	10:45 – 11:30	Decision Tree Algorithm Evaluation of Classification Models
Linear Regression	11:30 – 12:30	Linear Regression Algorithm Evaluation of a Numerical Prediction Model Regression Tree Algorithm
	12:30 – 1:30	Lunch
Ensemble Models	1:30 – 2:00	Ensemble Models: Bagging & Boosting
Logistic Regression	2:00 – 2:30	Logistic Regression Algorithm and Likelihood Function Gradient Descent
Recommendation Engines	2:30 – 3:00	Apriori Algorithm Collaborative Filtering
	3:00 – 3:30	Coffee Break
Neural Networks	3:30 – 4:15	Biological vs Artificial Neuron Feedforward Network Backpropagation Introduction to RNNs and CNNs
Clustering	4:15 – 5:00	k-Means Hierarchical Clustering DB-SCAN
Data Preparation Integrated Deployment	5:00 – 5:45	Dimensionality Reduction Outlier Detection Missing Value Imputation Feature Selection Integrated Deployment
	6:00 – 6:30	Partner of the Year Ceremony 1 st Floor, Conference Room
	6:30 – 11:00	Welcome Reception and Poster Exhibition 2 nd Floor, Foyer