

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

Day 1: April 2, 2020

	Times in CEST	
Introduction	3:00 – 3:30	Use Case Collection Supervised vs Unsupervised Learning Classification vs Numerical Prediction Problems Different Steps of the CRISP DM cycle
Decision Tree	3:30 – 4:00	Decision Tree Algorithm Evaluation of Classification Models
	4:00 – 5:00	Break to practice on exercises and solution work through
Regression Models & Ensemble Models	5:00 – 5:30	Linear Regression Algorithm Evaluation of a Numerical Prediction Model Regression Tree Algorithm Ensemble Models: Bagging & Boosting
Logistic Regression	5:30 – 6:00	Logistic Regression Algorithm and Likelihood Function Gradient Descent Regularization
	6:00 – 7:00	Break to practice on exercises and solution work through

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Day 2: April 3, 2020

	Times in CEST	
Neural Networks	3:00 – 3:40	Biological vs Artificial Neuron Feedforward Network Backpropagation Introduction to RNNs and CNNs
Recommendation Engines	3:40 - 4:00	A-priori Algorithm Collaborative Filtering
	4:00 – 5:00	Break to practice on exercises and solution work through
Clustering	5:00 – 5:30	k-Means Hierarchical Clustering DB-SCAN
Data Preparation	5:30 – 6:00	Dimensionality Reduction Outlier Detection Missing Value Imputation Feature Selection
	6:00 – 7:00	Break to practice on exercises and solution work through