

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

Day 1: April 2, 2020

	Times in CEST	
Introduction	9:00am to 9:30am	Use Case Collection Supervised vs Unsupervised Learning Classification vs Numerical Prediction Problems Different Steps of the CRISP DM cycle
Decision Tree	9:30am to 10:00am	Decision Tree Algorithm Evaluation of Classification Models
	10:00 – 11:00	Break to practice on exercises and solution work through
Regression Models & Ensemble Models	11:00am to 11:30am	Linear Regression Algorithm Evaluation of a Numerical Prediction Model Regression Tree Algorithm Ensemble Models: Bagging & Boosting
Logistic Regression	11:30am to 12:00am	Logistic Regression Algorithm and Likelihood Function Gradient Descent Regularization
	12:00 – 1:00pm	Break to practice on exercises and solution work through

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Day 2: April 3, 2020

	Times in CEST	
Neural Networks	9:00am to 9:30am	Biological vs Artificial Neuron Feedforward Network Backpropagation Introduction to RNNs and CNNs
Recommendation Engines	9:30am to 10:00am	A-priori Algorithm Collaborative Filtering
	10:00am to 11:00am	Break to practice on exercises and solution work through
Clustering	11:00am to 11:30am	k-Means Hierarchical Clustering DB-SCAN
Data Preparation	11:30am to 12:00am	Dimensionality Reduction Outlier Detection Missing Value Imputation Feature Selection
	12:00am to 1:00pm	Break to practice on exercises and solution work through