



QUNIS

MACHINE LEARNING CHEAT SHEET

How to find your algorithm



Predicting categories

CLASSIFICATION

LINEAR MODELS

Logistic Regression					
Support Vector Machine (SVM)					
Bayes Point Machine					

NONLINEAR MODELS

Classification Neural Network					
Decision Trees					

ENSEMBLES

Decision Forest					
Boosted Decision Tree					

Predicting values

REGRESSION

LINEAR MODELS

Linear Regression					
Ordinal Regression					
Poisson Regression					

NONLINEAR MODELS

Regression Neural Network					
Regression Trees					

ENSEMBLES

Regression Forest					
Boosted Regression Tree					

TIMESERIES FORECAST

Auto Regressive Integrated Moving Average (ARIMA)					
Exponential Smoothing					



Finding unusual data points

ANOMALY DETECTION

NUMERICAL VARIABLES

Principal Component Analysis (PCA)					
One-class Support Vector Machine (SVM)					

CATEGORICAL VARIABLES

Autoencoder Neural Network					
Isolation Forest					
Linear Discriminant Analysis (LDA)					

Discovering structures

CLUSTERING

K-Means Clustering					
Hierarchical Clustering					

SUPERVISED LEARNING

UNSUPERVISED LEARNING



Quick & Easy



Long training time



Interpretable



Blackbox



High Accuracy

This cheat sheet shows a selection of the most popular algorithms used by the QUNIS data science team.