

# MACHINE LEARNING VODAFONE

## Day 1

### Introduction to Data & Relations

- o Data Scales
- o Sequence Relations
- o Sampling & Quantization
- Data Preprocessing & Visualization
- o Error Types and Handling
- o Filtering
- o Data Merging
- o Principal Component Analysis
- Introduction in Machine Learning
- What is Machine learning for value prediction and estimation
- Statistical Foundations Overview
- o Hypothesis testing
- o Experimental design
- o Linear regression
- o Logistic regression

## Day 2

## Different Types of Machine Learning

- Supervised
- Unsupervised
- Semi-Supervised
- Reinforcement

## Machine Learning Algorithm

- Introduction of Decision Trees and examples
- Neural Networks
- K-nearest neighbors
- Support Vector Machines
- Naive Bayes

## Applying Model and Algorithm

- Work with Datasets
- Apply machine learning Model