

Machine Learning using R

Machine Learning using R – Course Syllabus

Introduction to R
What is Machine Learning?
Features and Benefit of Machine Learning
Explain on use and abuse of Machine Learning
Real-time use case Scenarios
Explain on high level Machine Learning Algorithm
What is R?
Why need R?
Pre-requisite to install R
Installing R
Explain on Package and Library
Loading an R package
Environment Setup on R
Scoping Rules

GUI Editor and Command line interface
Explorer on R Studio
Getting helps and blog on R
Orange Techno mind Building Blocks on R
Variable declaration and Syntax on R
Scalars
Vectors
Factors
List
Arrays
Data Frames
Using Cbind,Rbind
Explain on Classes and Objects
Functions
Custom Functions and Arguments
IF-else statements
Lookup tables
Sequential steps
Explain on Parallel Cases
Looping statements like FOR, WHILE, REPEAT
Orange Techno mind Processing Data with R
Understanding Loading and Saving R data structure
Importing and Saving data from CSV files
Importing data from SQL database
Reading and Writing using Excel and SAS
Explain on Structure of data
Visualizing Numeric Variables
Explain Visualizing Relationships
Orange Techno mind Working with Regression and Analysis
Overview of Regression and Analysis
Benefit of Regression
Explain on Baseline Model
Liner Regression
Correlations
Multiple linear Regression

Explain on Regression and Model Trees
Polynomial Regression model with rlm
Definition Correlation
Bigger Regression Models with Biglm
Orange Techno mind Working with Regularization
Explaining on Regularization
Non-Linear Relationships
Test Regression
Orange Techno mind Lazy and Probabilistic Learning
Understanding nearest Neighbor Classification
Depth explain on K-NN Algorithm
Choose data for use with K-NN
Understanding Naive Bayes
Basic concept on Bayesian Methods
Explaining on Probability and joint Probability
Naive Bayes Algorithm
Orange Techno mind Working with Divide and Conquer
Explaining on Decision Trees
Decision Tree Algorithm
Classification Rules
Separate and Conquer
Explain on 1R Algorithm
Explain on RIPPER Algorithm
Orange Techno mind Working with Black Box Methods
What is Neural Networks?
Understanding on Neural Networks
Activation Function
Explain on Network Topology
Explain on Support Vector Machines
Orange Techno mind Working with Finding Patterns
What is Association Rules
Understanding Association Rules and Benefit
Explain on Apriori Algorithm
Setting up rules with Apriori Principle
Orange Techno mind Working with Model Performance

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Overview of Model Performance

Classification on Measuring Performance

Prediction data with R

Measure Performance using Confusion Matrices

Explain on F-Measure

Explain on Improving Model Performance

Parallel Computing

Orange Techno mind Best Practices on Machine Learning and Interview Tips

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