

R-Language

Course curriculum

- Getting Started with Analytics
Analytics - Types - Levels of Analytics & Statistics - Case Studies -Application to Technology
- Business Analytics & Application of Statistics
Statistics & Application to Business - Probability Theory - Anova: Kurtosis & Skewness - Tests of Significance & Non-parametric Testing
- Data Science
Data Science - Life Cycle - Statistics and Data Science – Data Engineering - Data Scientist - Use cases
- Getting Started with R
Course Review - Understanding the versions of R - Choosing the Best Version - Downloading R Installing R - Understanding R Environment
- Triggering R
Primitive Data Types in R - Complex Data Types in R: Vectors, Arrays, Matrices, Lists and Data Frame - Handling Primitive & Complex Types
- Programming R
Getting Data into R from various Statistic Tools, Websites, CSVs, Databases etc - Familiarizing with Data Sets - Working with Data Sets - Programming R with Control Flow & Looping constructs - R Procedures
- Analytics with R – Basics
Data Exploration - Grouping Data - Data Visualization – Applying Probability Tests on Data in R - Applying Business Analytics in R - Use Cases

- Analytics with R – Advanced

Data Munging in R - Combing & Ripping Text - Applying Basic Statistics to R - Applying Advanced Statistics to R along with Case Studies: Linear & Non-Linear Models - Handling Time Series Data – Kmeans - K-Medoids - Hierarchical Clustering - Cyclical vs Seasonal Analysis - Exponential Smoothing - White Noise - Predictive Modeling Techniques - Reporting through Knitr - Package Building

- Data Visualization in R

Graphical Parameters in R Base - Base Plotting using Bar Charts, Box Plots, Histograms, Pie Charts & Use Cases - Understanding & Working with Graph Libraries.

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