



Data Science with R Certification

CHOOOLS CONSULTING SERVICES PVT LTD

Data Science with R Certification

8 WEEKS

Data Science with R certification course makes you an expert in data analytics using the R programming language. This data science with R course enables you to take your Data Science skills into a variety of companies, helping them analyse data and make more informed business decisions.

With dedicated mentoring sessions, this R course incorporates cutting-edge curriculum to help you develop job-ready skills. Enrol in our R training and build expertise in data science right away

Skills You'll Gain

- Business analytics
- R programming and its packages
- Data structures and data visualization
- Apply functions and DPLYR function
- Graphics in R for data visualization
- Hypothesis testing
- Apriori algorithm
- kmeans and DBSCAN clustering



Who is this for?

This Data Science with R certification training is beneficial for all aspiring data scientists including, IT professionals or software developers looking to make a career switch into Data analytics, professionals working in data and business analysis, graduates wishing to build a career in Data Science, and experienced professionals willing to harness Data Science in their fields.

There are no prerequisites for this Data Science with R certification course. If you are a beginner in Data Science, this is one of the best courses to start with.

Course Curriculum

Lesson 01 – Introduction to Business Analytics

- Overview
- Business Decisions and Analytics
- Types of Business Analytics
- Applications of Business Analytics
- Data Science Overview
- Conclusion
- Knowledge Check

Lesson 02 – Introduction to R Programming

- Overview
- Importance of R
- Data Types and Variables in R
- Operators in R
- Conditional Statements in R
- Loops in R
- R script
- Functions in R
- Conclusion
- Knowledge Check

Lesson 03 – Data Structures

- Overview
- Identifying Data Structures
- Demo: Identifying Data Structures
- Assigning Values to Data Structures
- Data Manipulation
- Demo: Assigning Values and Applying Functions
- Conclusion
- Knowledge Check

Lesson 04 – Data Visualization

- Overview
- Introduction to Data Visualization
- Data Visualization Using Graphics in R
- Ggplot2
- File Formats of Graphic Outputs R
- Conclusion
- Knowledge Check

Lesson 05 – Statistics for Data Science-I

- Overview
- Introduction to Hypothesis
- Types of Hypothesis
- Data Sampling
- Confidence and Significance Levels
- Conclusion
- Knowledge Check

Lesson 06 – Statistics for Data Science-II

- Overview
- Hypothesis Test
- Parametric Test
- Non-Parametric Test
- Hypothesis Tests about Population Means
- Hypothesis Tests about Population Variance
- Hypothesis Tests about Population Proportions
- Conclusion
- Knowledge Check

Lesson 07 – Regression Analysis

- Overview
- Introduction to Regression
- Analysis
- Types of Regression Analysis Models
- Linear Regression
- Demo: Simple Linear Regression
- Non-Linear Regression
- Demo: Regression Analysis with Multiple Variables
- Cross Validation Non-Linear to Linear Models
- Principal Component Analysis
- Factor Analysis | Conclusion | Knowledge Check

Lesson 08 – Classification

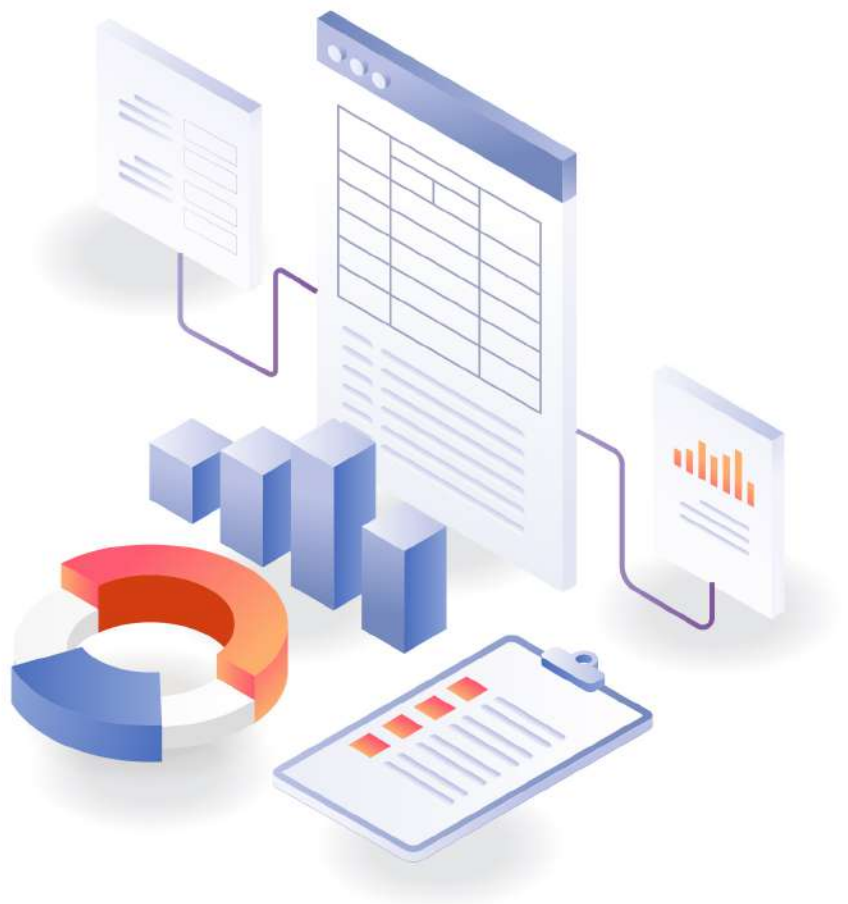
- Overview
- Classification and Its Types
- Logistic Regression Support
- Vector Machines
- Demo: Support Vector Machines
- K-Nearest Neighbours
- Naive Bayes Classifier
- Demo: Naive Bayes Classifier
- Decision Tree Classification
- Demo: Decision Tree Classification
- Random Forest Classification
- Evaluating Classifier Models
- Demo: K-Fold Cross Validation
- Conclusion
- Knowledge Check

Lesson 09 – Clustering

- Overview | Introduction to Clustering
- Clustering Methods
- Demo: K-means Clustering | Demo: Hierarchical Clustering
- Conclusion | Knowledge Check

Lesson 10 – Association

- Overview
- Association Rule
- Apriori Algorithm
- Demo: Apriori Algorithm
- Conclusion
- Knowledge Check



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