

Data science with R Training

About Course

Learn how to use Data Science with R from beginner level to advanced techniques which is taught by experienced working professionals. With our [Data Science with R Training in Bangalore](#), you'll learn concepts in expert level in a practical manner.

We offer the best Fast-Track Data Science with R Training in Bangalore along with One-to-One Data Science with R Training in Bangalore. The additional value that you would be getting after you complete our training is that the topics will all be covered in the most practical way possible while you take up our Data Science with R Certification Training in Bangalore. We always want our students to enjoy what they learn and learn what they enjoy. That's why we are focusing on making learning more practice-oriented.

Course Syllabus

Module 1: Introduction to Data Science (Duration-1hr)

- What is Data Science?
- What is Machine Learning?
- What is Deep Learning?
- What is AI?
- Data Analytics & it's types

Module 2: Introduction to R (Duration-1hr)

- What is R?
- Why R?
- Installing R
- R environment
- How to get help in R
- R Studio Overview

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Module 3: R Basics (Duration-5hrs)

- Environment setup
- Data Types
- Variables Vectors
- Lists
- Matrix
- Array
- Factors
- Data Frames
- Loops
- Packages
- Functions
- In-Built Data sets

Module 4: R Packages (Duration-2hrs)

- DMwR
- Dplyr/plyr
- Caret
- Lubridate
- E1071
- Cluster/fpc
- Data.table
- Stats/utils
- Ggplot/ggplot2
- Glmnet

Module 5: Importing Data (Duration-1hr)

- Reading CSV files
- Saving in Python data
- Loading Python data objects

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- Writing data to csv file

Module 6: Manipulating Data (Duration-1hr)

- Selecting rows/observations
- Rounding Number
- Selecting columns/fields
- Merging data
- Data aggregation
- Data munging techniques

Module 7: Statistics Basics (Duration-11hrs)

- Central Tendency
- Mean
- Median
- Mode
- Skewness
- Normal Distribution
- Probability Basics
- What does mean by probability?
- Types of Probability
- ODDS Ratio?
- Standard Deviation
- Data deviation & distribution
- Variance
- Bias variance Trade off
- Underfitting
- Overfitting
- Distance metrics
- Euclidean Distance
- Manhattan Distance
- Outlier analysis

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- What is an Outlier?
- Inter Quartile Range
- Box & whisker plot
- Upper Whisker
- Lower Whisker
- Scatter plot
- Cook's Distance
- Missing Value treatments
- What is a NA?
- Central Imputation
- KNN imputation
- Dummification
- Correlation
- Pearson correlation
- Positive & Negative correlation

Module 8: Error Metrics (Duration-3hrs)

- Classification
- Confusion Matrix
- Precision
- Recall
- Specificity
- F1 Score
- Regression
- MSE
- RMSE
- MAPE

Module 9: Machine Learning

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Module 10: Supervised Learning (Duration-6hrs)

- Linear Regression
- Linear Equation
- Slope
- Intercept
- R square value
- Logistic regression
- ODDS ratio
- Probability of success
- Probability of failure
- ROC curve
- Bias Variance Tradeoff

Module 11: Unsupervised Learning (Duration-4hrs)

- K-Means
- K-Means ++
- Hierarchical Clustering

Module 12: Machine Learning using R (Duration-10hrs)

- Linear Regression
- Logistic Regression
- K-Means
- K-Means++
- Hierarchical Clustering – Agglomerative
- CART
- 5.0
- Random forest
- Naïve Bayes

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Course Reviews

Review 1:

I would like to highlight a few points about my association with Besant Technologies. The faculty members out here are super supportive. They make you understand a concept till they are convinced you have gotten a good grip over it. The second upside is definitely the amount of friendliness in their approach. I and my fellow mates always felt welcome whenever we had doubts. Thirdly, Besant offers extra support to students with a weaker understanding of the field of IT.

Review 2:

When I joined Besant Technologies, I didn't really expect a lot from it, to be extremely honest. But as time went by, I realised I got from Besant Technologies exactly what I wanted- a healthy environment for learning. Cordial teachers and their valuable lectures make understanding things so much easy. I thank Besant for having been so supportive throughout the course.

