



PROGRAMMING IN R

R is a programming language and a free software environment developed by Ross Ihaka and Robert Gentleman in 1993. The R language is widely used among statisticians and data miners for developing statistical software and data analysis. As of March 2019, R has been ranked the 14th most popular programming language. R is comparable to popular commercial statistical packages, such as SAS, SPSS, and Stata, but R is available to users at no charge under a free software license. R is not only entrusted by academicians, but many large companies also use R programming language, including Uber, Google, Airbnb, Facebook and so on.

About the Program

Program starts with basics of R Programming, evolving into how to work with data in R, importing the data, preparing the data, analysing the data in R and visualization of the results in R.

Program Contents

- Introduction to Programming in R (18 Hours)
- Data Preparation in R (6 Hours)
- Data visualization in R (6 Hours)
- Advanced R programming (12 Hours)
- Guided Practice (42 Hours)

Who should join?

- Have basic knowledge of working in the Windows environment and Microsoft excel
- Knowledge of Math/Statistics up to Class XII
- Candidates wanting to take the first step in Data Analytics domain
- Candidates wanting to make career in Data Analytics domain but not decisive for a career program

Program Benefits:

- Learn the most popular tool for data analytics
- Start with the R basics, to advance analysis in R.
- Hybrid Learning with Guided practice & Weekly Practice quiz questions on the app along with the classroom sessions
- Extensive Learning hours with 42 hours of classroom training along with real time practice on data sets and 42 hours of online guided practice for better learning and increased retention
- Hands-on application of the Tools
- App based learning. Connect with Faculty on the App apart from the regular classroom training.



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Modules Objectives:

- 1. Understanding of R System and installation and configuration of R-Environment and R-Studio
- 2. Understanding R Packages, their installation and management
- 3. Understanding of nuts and bolts of R:
 - R program Structure
 - R Data Type, Command Syntax and Control Structures
 - File Operations in R
- 4. Application of R Programming in Daily life problems
- 5. Preparing Data in R
 - Data Cleaning
 - Data imputation
 - Data conversion
- 6. Visualising data using R with different type of graphs and charts
- 7. Applying R Advance features to solve complex problems and finetuning R Processes

Key Skills:

- R Programming
- Data Analysis in R
- Data Visualization in R