

# R programming with datascience

Duration:-- 2 month

## **R**

- R Installation
- RStudio IDE
- R Advantage & Disadvantage
- R Packages
- List of R Packages

## **R Basics**

- R Basic Syntax
- R Data Types
- R Data Structures
- R Variables
- R Keywords
- R Operators

## **R Statements**

- R If Statement
- If-else Statement
- else if Statement
- R Switch Statement
- R Next Statement
- R Break Statement

## **R Loops**

- R For Loop
- R Repeat Loop

- R While Loop

## **R Functions**

- R Functions
- R Built-in Functions

## **R Data Structures**

- R Vectors
- R Lists
- R Arrays
- R Matrix
- R Data Frame
- R Factors

## **R Advance**

- Data Reshaping
- Object-Oriented Programming
- R Debugging

## **Data Interfaces**

- R CSV File
- R Excel File
- R Binary File
- R JSON File
- R XML File
- R Database

## **Data Visualization**

- R Data Visualization

- R Pie Charts
- R Bar Charts
- R Boxplot
- R Histogram
- R Line Graphs
- R Scatterplots

## **R Regression**

- Linear Regression
- Multiple Regression
- Logistic Regression
- Poisson Regression

## **R Statistics**

- Normal Distribution
- Binomial Distribution
- R Classification
- Time Series Analysis
- R Random Forest
- T-Test in
- RChi-Square Test
- R vs Python