

Why Learn R

A good data scientist is a passionate coder/statistician, and there's no better programming language for a statistician to learn than R. It's a popular skill among Big Data analysts and data scientists most sought after by some of the biggest brands. In addition, R's commercial applications increase by the minute, and companies appreciate its versatility.

- ❖ R is open-source and freely available. Unlike SAS or Matlab, you can freely install, use, update, clone, modify, redistribute and resell R.
- ❖ R is a powerful scripting language. As such, R can handle large, complex data sets. R is also the best language to use for heavy, resource intensive simulations and it can be used on high performance computer clusters.
- ❖ R is cross-platform compatible. R can be run on Windows, Mac OS X and Linux. It can also import data from Microsoft Excel, Microsoft Access, MySQL, SQLite, Oracle and other program.

Contact Details

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For online registration [Click Here](#)



Objectives of workshop

1. To help the participants to familiarize with the R Programming language and data analysis.
2. To train the participants in accessing data from various domains.
3. To develop confidence as independent R Programmer. and data analyst

INSTRUCTIONAL METHODS

- Instructor Led Training
- Audience Participation/Hands-on Exercises
- Assignments or Problem Solving Strategies
- Simulations
- Small Groups & Individual Practice

Who all can Participate:

Student of different Delhi University Colleges

Registration Fee: Rs 2500/-

Important Notes:

1. The fee will include the Participation fee, Workshop kit, Materials, Certificate and Refreshment.
2. The Participants are requested to send registration form along with the fee in the form of NEFT/DD drawn in favour of "Principal, Ram Lal Anand College" payable at New Delhi on or before December 4, 2017, UBI, Bank SSF A/c No. 403502010005997 IFSC UBIN0540358.
NO SPOT REGISTRATION.

Analytics Using R!★

December 18th-23rd, 2017



ORGANISED BY
RAM LAL ANAND COLLEGE

&



PROGRAMME SCHEDULE

Timing - 9.00 am to 5.00 pm

Tea Break - 11.00 to 11.30 am

Lunch - 1.30 to 3.00 pm

Day - 1 (18.12.2017)

Introduction to the R language

- Basic R Introduction
- The R Environment
- Introduction to R
- Working with R
- Objects in R
- Data import/export
- Variable Handling in R
- Adding new variable
- Basic Visualisation in R
- Basics Statistics

Day - 2 (19.12.2017)

Data Manipulation Techniques using R programming

- Data Massaging
- Use of dplyr/dbplyr/plyr/sqlldr
- Graphics in R
- Some more statistics
- String Handling in R
- Function in R
- Loops in R
- Data Sources (to practice)
- R packages
- R Application
-

Day - 3 (20.12.2017)

Programming statistical graphics

- String Handling in R using strings package
- Graphical display of distributions
- Histograms
- Boxplots
- Barplots
- Piecharts
- Descriptive statistics and graphics
- The paired t test
- One- and two-sample tests*

Day - 4 (21.12.2017)

Data Aggregation

- Advanced data handling
- Reshaping Data
- Appending frames
- Merging data frames
- Reshaping data frames
- Tabular data
- Working with dates

Day - 5 (22.12.2017)

Statistical Models

- Linear models
- Regression - Linear Regression
- Statistical Test like PCA and Information Value
- Non-parametric test
- Simple linear regression
- Correlation and Pearson correlation

- One-way analysis of variance
- Multiple Regression
- Model search and Result Evaluation

Day - 6 (23.12.2017)

Analytics

- Survey Sampling
- Factor Analysis
- Logistic regression
- Generalised linear models
- Logistic regression on tabular data
- Survival analysis
- Rates and Poisson regression .
- **Online Test and Certificate Distribution**

Eligibility: 12th with Mathematics or Statistics

seats are limited to 30 participants only so hurry and register to secure a spot for yourself

