



— FOR —

**DATA
ANALYTICS**

GITS ACADEMY

Learn

Data Management

&

Data Visualization

CLASS ROOM | ONLINE

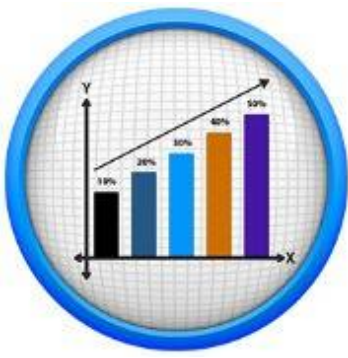
RANKED NO.1 ANALYTICS TRAINING INSTITUTE

SINCE

2008



WWW.GITSACADEMY.COM



R SOFTWARE PROGRAMING WIDELY USED OPEN SOURCE ANALYTICS TOOL

COMPREHENSIVE COURSE FOR R TOOL AND ASSOCIATED ANALYTICS

PREREQUISITES: BASIC COMPUTERS
WITH GOOD ANALYTICAL SKILLS

DURATION
16 HRS

TOOLS: R SOFTWARE +R
STUDIO



ABOUT THE COURSE

This course provides an in-depth knowledge of R and practical exposure as well as run various Analytics techniques on it. In this course we cover basics of Analytics also so that you become aware of theoretical aspects too.

R is gaining more popularity these days, first because of its open source & low cost, nature, and second because of the fact that big data tools like Hadoop are open source too and integration between these and other open source tools are seamless. And many a times the Analytics tasks are ad-hoc and do not require a commercial tool. This is adding to the popularity of R tool.



COURSE OUTLINE

LESSON 1 :INTRODUCTION

Why use R programming
Overview of the CRAN project

LESSON 2 : R ARCHITECTURE

Installing R and Rstudio
The package sparadigm
The"vector"architecture of R

LESSON 3 : DATA TYPES ANDSTRUCTURES

Numeric types
Character types
Factor-an R specific data type
Dates
Boolean types
Vector- fundamental data structure
Matrix
Data frame
Lists

LESSON 4 : COMMON DATA OPERATIONS

Importing data
Exporting data
Editing data in spread sheet form
Subsetting
Filtering
Summarization
Cross tabs

LESSON 5 : FUNCTIONS IN R

String functions
Numeric functions
Data manipulation functions
Aggregation

LESSON 6 : CONTROL FUNCTIONS

Forloop,Whileloop, Repeat

LESSON 7 : USERDEFINED FUNCTIONS

Syntax for custom functions
Specifying arguments
Returning objects

LESSON 8 : DPLYR PACKAGE

Data cleaning, preparation and
manipulation

LESSON 9 : GGLOT 2 PACKAGE

Make visualization of data easy

LESSON 11 : RESHAPE PACKAGE

Make visualization of data easy

WHAT IS R??

R is a programming language. It is an open source scripting tool used for data Analytics and data Visualization. R can be a distinct option for traditional statistical packages, for example, SPSS, SAS, and Stata such that it is an extensible, open-source dialect and processing environment for Windows, Macintosh, UNIX, and Linux platforms.

WHERE WOULD YOU BE ABLE TO GET THE R SOFTWARE?

Installation files for Windows, Mac, and Linux can be found at the website for the Comprehensive R Archive Network, <https://cran.r-project.org/>The site also contains documentation for downloading and installing the software on different operating systems. There is no cost for downloading and using R.

WHAT IS THE SCOPE OF LEARNING?

Understand the R language syntax
Implement basic data manipulation techniques
Execute basic data manipulation Syntax
Data Visualization with R
Build fundamental plots and representation utilizing R
Data analysis and perform statistical modeling using R

WHO SHOULD LEARN THIS R OPEN SOURCE SOFTWARE?

In the event that you need to get information of Analytics and learn reasonable using so as to learn about it on Analytics Tools, for example, R then this is the right course for you.

WHAT IS THE TRAINING METHODOLOGY OF GITS ACADEMY?

- The training delivery would be case based instructor lead training.
- Each training day the participants learn the R Software topics and would solve cases.

CASE STUDIES

1. Cars dataset shipped with the R setup to study the impact of Speed on Distance covered. This case shall introduce the necessary steps of creating a data model through Simple Linear Regression with complete code in R.
2. Studying the Ozone data through Advanced Linear Regression to predict Ozone reading in a particular region. This case shall involve several Regression techniques to accurately predict Ozone data involving imputation and outlier treatment and multicollinearity
3. Studying the classic Titanic Dataset to study the passenger data , who travelled in Titanic and calculating their probability of survival and death through Logistic Regression. This case study will deal all the steps involved in a Logistic Regression implementation.
4. Studying 'Census Income' dataset and applying classical Decision Tree algorithm to predict whether a Person's income will exceed a threshold income of certain

Student's Speak

I Am in the Business Stats and R class at GITS Academy. It's really good. Trainer explains very well. Even as a beginner and Non-Engineering, Non-Programming person, I understand it very well. I even used some of this in my project. Work. Thanks GITS Team, Thanks Ashutosh as my trainer!



Namrata Kumar

I joined GITS ACADEMY, it was a good experience all together,...for people like non technical would also find the vey simple by the methods of Pankaj sir...thank you one and all.



Aman Mehta

I was enrolled here. and I must say am happy that, I took a decision of getting training from GITS Academy. So I took data analytics in R. And this field is so vast. I am getting so many calls for jobs after getting trained.

I would strongly recommend GITS Academy to you all. 😊



Jyothi N

Best Part about the Hadoop and SAS Course in GITS Academy malleswaram is "Variety of problems with real world use cases were covered", Kudos! to GITS , They have the Best Training Staff and Quality of learning,I would recommend people to join GITS Malleswaram for best Output.



Ajith V

Courses Offered by GITS Academy

Business Analytics

R For Data Science
Python for Data Science
SAS Base/ Advanced
Machine Learning
Big Data Analytics/Hadoop
SQL Server/ MSBI
Advanced Excel
VBA/ Macros
Cognos

Data Visualization

QlikView
Tableau
MS Power BI
SpotFire

Other Courses

Project Management
Information Technology
Soft Skills
Data Base

Our Clients



Training Locations

MALLESWARAM

#16, 3rd floor 10th cross, sampige road above vijaya Bank,
Malleswaram, Bangalore.

Mo: 9900867154

Email: Training@gitsacademy.com



www.gitsacademy.com

JAYANAGAR

J.K. Towers

#719/A, 4th floor 46th cross, Sangam Circle,
Above More Super Market,
Jayanagar 8th Block, Bangalore.

Mo: 9632240775

Email: Contact@gitsacademy.com

Central Helpline 9590800200