CREDO SYSTEMZ
Simplifying IT

R PROGRAMMING TRAINING

SECTION 1 – Introduction to R Programming

- ➢ Basics of R Programming
- ➢ What is R Programming
- ➢ Why R Programming
- ➢ Benefits of R Programming
- ➢ Features of R Programming
- ➢ Setting the environment & Installation

SECTION 2 – Beginning of R Programming Basics

- ➢ Data Types in R Programming
- ➢ Variables in R Programming
- ➢ Different types of Operators
- ➢ Control and Decision making Statements
- ➢ Basic String Manipulations in R Programming
- ➢ User functions in R

SECTION 3 – Study about Data Types and Structures

- ➢ Basics about Data Types in R Programming
- ➢ Different Types of Data Structures
- ➢ Vector
- ➢ Matrix
- ➢ List
- ➢ Data Frame and Factor
- ➢ Using the data structures in programming

SECTION 4 – Overview of R Data Interfaces

- ➢ Different type of R Data Interfaces
- ➢ Reading, Analysing and Working with CSV File
- ➢ Working with Excel File – Verify & Load
- ➢ Reading and Writing in the Binary File – WriteBin() and ReadBin()
- ➢ Introduction to RMySQL Package
- ➢ Connecting R with MySQL – Creating Tables in MySQL

SECTION 5 – Creating Charts and Graphs in R Programming

➢ Study about the R Programming libraries about Charts and Graphs
➢ R – Pie Charts, Bar Charts, Boxplots, Histograms, Line Graphs, Scatterplots
➢ Parameter explanation of each libraries

SECTION 6 – Statistical Computing in R Programming

➢ Basics of Statistical Analysis in R Programming
➢ Mean, Median and mode of Statistical analysis
➢ Establishing a Linear Regression
➢ Multiple Regression – Creating relationship between two variables
➢ Logical Regression – Creating Regression Model
➢ Generating Normal Distribution
➢ Generating Binomial Distribution
➢ Poisson Regression – Mathematical Equation
➢ ANCOVA – Analysis of Covariance
➢ Time Series Analysis ts()

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