POSITIVE QUADRANT
T E C H N O L O G I E S
SERVING INFORMATION WORLDWIDE

Website: Positivequadrant.in
Email: positivequadrants@gmail.com
Contact: +91 8169150592

R PROGRAMMING

Programming & development

Course Curriculum

Basic – 16 Hours

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R Programming

Module 1 : Introduction to R

Introduction to R and RStudio

Overview of R Programming

Environmental Setup of R

Module 2 : Fundamentals of R

Features of R

Variables in R

Constants in R

Operators in R

Datatypes and R Objects

Module 3 : Vectors

Creating Vectors

Accessing elements of a Vector

Control statements

Module 4 : Functions in R

Formal and Actual arguments

Named arguments

Global and local Variables

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Module 5 : Matrices and Strings

Creating matrices

Accessing elements of a Matrix

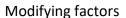Creating strings

String manipulation

Module 6 : Arrays in R

Creating arrays

Accessing array elements

Calculations across array elements

Module 7 : R Factors

Understanding factors

Modifying factors

Factors in Data frames

Module 8 : Data Frames in R

Creating data frame

Operations on data frames

Accessing data frames

Creating data frames from various sources

Module 9 : Data visualization in R

Creating bar chart and dot plot

Creating histogram and box plot

Customizing plots

Module 10 : STRINER Package and DPLYER Package

Important functions in stringr

Regular expressions

Load data into dataframe

Viewing the data

Selecting columns

Selecting rows