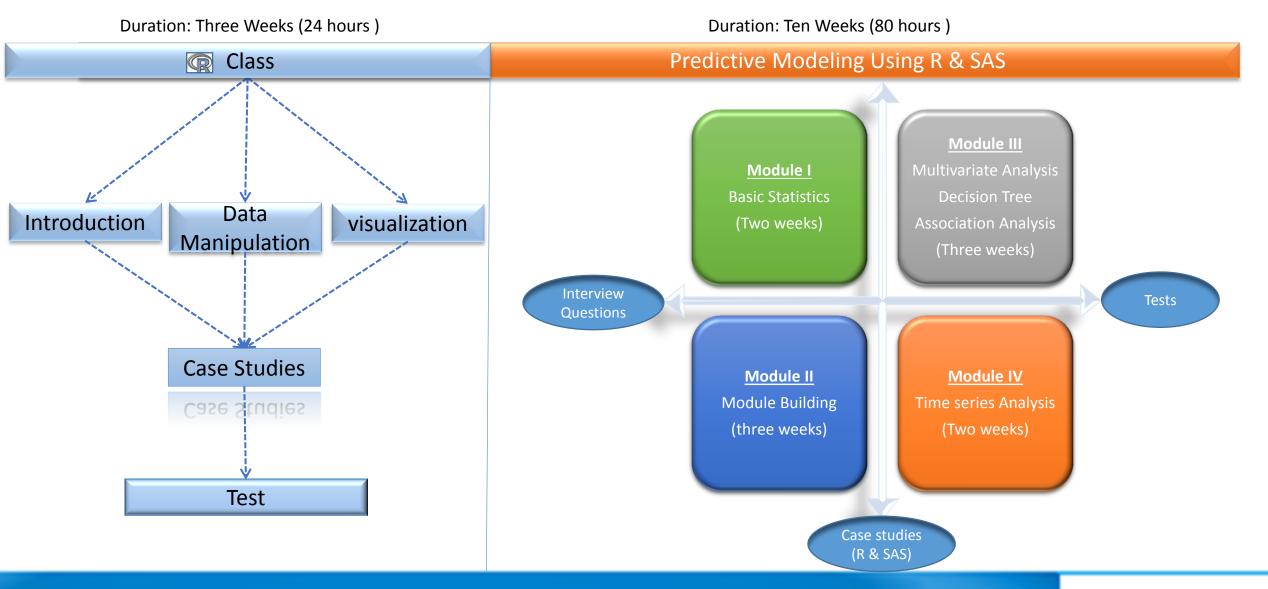
COMPLETE ANALYTICS

Predictive Modeling Course Contents

Snapshot of Predictive Modeling course content



Course Content – R

Introduction to R

- ■Introduction to R History, Windows of R, Application, Why R?, compared with other software.
- ■Data Structures in R Vector, List, Matrix & Data Frame.
- ■R Workspace
- ■Packages in R What is Package, How to install package, How to use?
- ■Reading, writing a dataset
- ■First steps with a dataset head, tail, summary, class, list, ls()
- Working on case study
- ■Discussion of case study and understand optimal way of writing code.

Course Content – R

Data Manipulation in R

- •Adding new columns
- Deleting columns
- Functions
- •Indexing
- Subsetting Data
- Control Structures
- Merge
- Reshape
- ■Dplyr package- Select, Filter, mutate, summarize etc.,
- Pipeline function
- ■Usage of SQLDF package
- Working on case Study

Visualization in R

- ■Plotting with base grapg Histogram, Scatter, Boxplot, Bargraph, line graph etc.,
- ■Plotting with ggplot2 Histogram, Scatter, Boxplot, Bargraph, line graph etc.,
- ■Working on case study

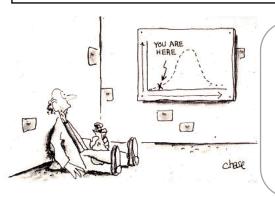
Course Content – Module I

Descriptive Statistics



- I. Measure of central Tendency Mean, Median and Mode
- II. Measure of dispersion –Range, variance, SD and CV
- III. Measure of Shape Skewness and Kurtosis

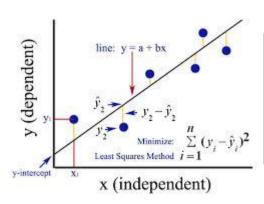
Testing of Hypothesis



- I. Types of Hypothesis
- II. Application of Testing of hypothesis
- III. Steps in testing of hypothesis
- IV. Parametric and Non parametric test (T Test, Z test, Paired T test, ANOVA and Chi square test)

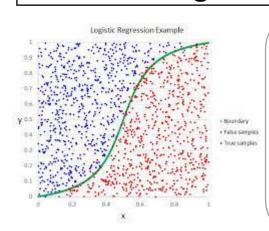
Course Content – Module II

Correlation And Regression



- I. Introduction about correlation and Regression
- II. Simple and Multiple Regression
- III. Assumption of Regression
- V. Model Validation
- V. Dummy variable Regression
- VI. Variable selection Technique Forward, Backward and Stepwise Regression

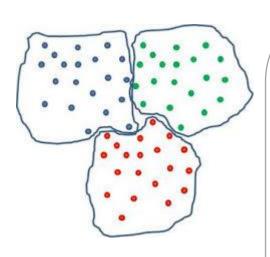
Logistic Regression



- . Introduction and its application
- II. Why Logistic Regression
- III. Logistic Regression Equation form
- IV. Data Preparation for logistic regression
- V. Case study
- VI. Model Validation
- VII. Interpretation of output
- VIII. Scoring

Course Content – Module III

Multivariate Analysis

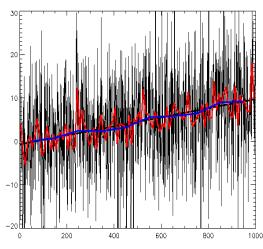


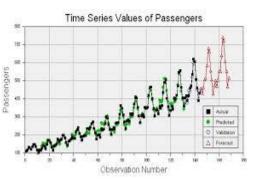


- . Cluster Analysis
 - I. Euclidean Distance
 - II. Hierarchical cluster: Linkage, centroid and Wards methods
 - III. Non Hierarchical cluster (K Means cluster)
- II. Factor Analysis
 - I. How to decide number of factors
 - II. Varmax Rotation
- III. Conjoint Analysis
- IV. Market Basket Analysis
 - I. Support
 - II. Confident
 - III. Lift
- V. Decision Tree
 - I. CHAID
 - II. CART

Course Content – Module IV

Time Series Analysis





- I. Time Series Component
- Smoothing Technique
 - I. Moving average and
 - I. Exponential smoothing
- III. Forecasting
 - I. Trend Forecasting
 - II. Auto Regression
 - III. Moving Average
 - IV. ARIMA Model
 - I. Identification
 - II. Estimation
 - III. Diagnosis
 - IV. Forecasting

For More Details

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