



# PRAISIA

## TECHNOLOGIES

Career Focus: Data Scientists, Analytic Professionals, Data Modelers, Business Intelligence Roles

### PA0102: Analytics Using R

It introduces the concepts, tools and techniques of Analytics and Statistical Modeling using R

#### Course Contents

##### 1. R Basics

- I. Reading, Writing Data
- II. R as a functional Language
- III. Graphics & Plotting

##### 3. Statistical Tests

- I. Sampling Distributions
- II. Hypothesis Testing
- III. Type I & Type II Errors
- IV. 1 tailed & 2 tailed tests
- V. Point & Interval Estimate
- VI. Effect Size & Significance Tests
- VII. Probability
- VIII. Chi Square
- IX. z and t test
- X. ANOVA
- XI. Multiple Comparisons

##### 4. Programming in R

- I. Syntax
- II. Functions
- III. Packages
- IV. Libraries & Simulation

##### 5. Statistical Models in R

- I. Covariance & Correlation
- II. Linear Regression
- III. Assumptions
- IV. Factorial ANOVA
- V. Repeated Measures ANOVA
- VI. ANCOVA, MANCOVA
- VII. Multiple Linear Regression
- VIII. GLM
- IX. Flexible Models (GMM)



##### 6. Classification/Regression Trees (CART)

- I. Classification
- II. Regression
- III. CART
- IV. Bagging/Boosting
- V. Resampling

##### 6. Industrial Project

- I. Data Analysis, Interpretation & Implication

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