



PRAISIA

TECHNOLOGIES

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

PA0001: Foundation Course in Analytics

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

Course Contents

1. Business Statistics

- I. Describing & Exploring Data
- II. Central Tendency & Variability
- III. Box Plots

2. Normal Distribution

- I. Parameters
- II. Standard Normal Distribution
- III. Reading Tables

3. Sampling Distributions

- 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

4. Chi square & Hypothesis Tests

- I. Contingency Table
- II. Measures of Association
- III. Hypothesis Test of Means
- IV. Power Calculation

5. Correlation & Regression

- I. Covariance & Correlation
- II. Linear Regression
- III. Assumptions
- IV. ANOVA
- V. Multiple Comparisons Tests
- VI. Prior Contrasts & Post Hoc
- VII. Factorial ANOVA
- VIII. Repeated Measures ANOVA
- IX. ANCOVA, MANCOVA
- X. Multiple Linear Regression

6. Predictive Analytics

- I. Association Rules
 - II. Decision Trees
 - III. Clustering
 - IV. SVM
 - V. Neural Networks
 - VI. Genetic Algorithms
- ##### 6. Industrial Project
- I. Data Analysis, Interpretation & Implication



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