TECHINFOPLACE
A radical new idea

Predictive Modelling by using SAS/STAT Course Details

- **Introduction to Data Analytics**
  - Definition of Data
  - Difference between data management and data analytics
  - Overview of SAS
  - Levels of Measurement and Variable types
  - Descriptive Statistics and Picturing Distributions
  - Confidence Interval for the Mean
- **Hypothesis Testing and ANOVA**
  - One Sample t-test of comparing means by using proc ttest
  - Two Sample t-test of comparing means by using proc ttest
  - One tail t-test using proc ttest
  - Paired Sample t-test using proc ttest
  - One Way ANOVA by using proc glm
  - Assumptions of ANOVA Modelling by using ODS GRAPHICS
  - n-way ANOVA by using proc glm
  - Two Way ANOVA with interactions
  - ANOVA Post Hoc Studies by using proc glm
- **Exploratory Data Analysis**
  - Data Exploration by using Scatter Plots
  - Pearson and Spearmen Correlations by using proc corr
  - Analyse the output from proc corr
- **Linear Regression**
  - Fit Simple Linear Regression Model by using proc reg
  - Assumptions of Linear Regression Model
  - Analyse the output of the REG procedure for simple linear regression models
  - Producing Predicted Values by using proc score
  - Difference between Simple Linear Regression and Multiple Linear Regression Models
  - Fit Multiple Linear Regression Model by using proc reg
  - Stepwise Regression/Model Selection Techniques
- **Regression Diagnostics**
  - Residual Plots by using ODS GRAPHICS
  - Influential Observation
  - Difference between Influential Observation and Outliers
  - Collinearity Diagnostics
- **Model Building Process**
- **Categorical Data Analysis**
  - Examining Distributions
  - Test of Associations by using chi-square test
  - Fisher's Exact p-values for Pearson Chi-square test
- **Logistic Regression**
  - Odds and Odds Ratio
  - Simple Logistic Regression
  - Multiple Logistic Regression with categorical predictors
  - Analyse the output from Proc logistic

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- **Measure Model Performance**
  - Apply the principles of honest assessment to model performance measurement
  - Assess classifier performance using the confusion matrix
  - Model selection and validation using training and validation data
  - Create and interpret graphs (ROC, lift, and gains charts) for model comparison and selection
  - Establish effective decision cut-off values for scoring