
Exploratory graphical data analysis in model building and prediction
Course Outline

1) Data exploration and graphical data analysis methods used in multiple linear regression

Multiple regression model: Partial regression plots, VIF plots, Best candidate model selection methods (AICC and SBC), model prediction, regression model violation diagnostic checks, model validation methods

SAS DEMO:

Demonstrating the features of **Regdiag** macro for fitting multiple linear regression modeling, checking partial regression plots, model selection methods, model prediction, regression diagnostic checks, model validation methods

2) Data exploration and graphical data analysis methods used in Binary logistic regression

Logistic regression model: partial delta logit plots, Best candidate model selection methods (AICC and SBC), model prediction statistics, logistic regression diagnostic checks, model validation methods, ROC curve, lift charts, Classification table, Hosmer and Lemeshaw goodness-of-fit statistics.

SAS DEMO:

Demonstrating the features of **Logistic** macro for generating predictive probability plots, comparing model selection methods, model prediction statistics, logistic regression diagnostic checks, model validation methods, ROC curve, Classification table, and Hosmer and Lemeshaw goodness-of-fit statistics.
