

Advanced Predictive Modeling Using IBM SPSS Modeler

Course Outline

1. Preparing Data for Modeling

- Address general data quality issues
- Handle anomalies
- Select important predictors
- Partition the data to better evaluate models
- Balance the data to build better models

2. Reducing Data with PCA/Factor

- Explain the basic ideas behind PCA/Factor
- Customize two options in the PCA/Factor node

3. Using Decision List to Create Rulesets

- Explain how Decision List builds a ruleset
- Use Decision List interactively
- Create rulesets directly with Decision List

4. Exploring advanced predictive models

- Explain the basic ideas behind SVM
- Customize two options in the SVM node
- Explain the basic ideas behind Bayes Net
- Customize two options in the SVM node

5. Combining Models

- Use the Ensemble node to combine model predictions
- Improve the model performance by meta-level modeling

6. Finding the Best Predictive Model

- Find the best model for categorical targets with AutoClassifier
- Find the best model for continuous targets with AutoNumeric