

### MORNING

#### Team Meeting #1

- Introduction
  - Purpose of Data Mining Level III
  - CRISP-DM
  - Description of Data Source for Modeling
- Business Understanding
  - Prioritize Questions to be Addressed
  - Determine Method to Score Results
- Assign Data Understanding Responsibilities
- Result: List of Prioritized Business Questions and Corresponding Data
- Mining Approaches

#### Breakout Session #1: Data Understanding

- Summary Statistics
- Visualization
- Outlier Analysis
- Missing Data Analysis
- Create Mini-Report

#### Team Meeting #2

- Data Assessment Summary
- Assign Data Preprocessing Responsibilities
- Result: Summaries of Available Modeling Data, and Recommendations for their Use

#### Breakout Session #2: Data Preprocessing

- Correct Data Problems
- Create Features
- Create Mini-Report

#### Team Meeting #3

- Data Preprocessing Summary
- Join Data Modified During Breakout Sessions
- Determine Sampling Strategy
- Assign Modeling Responsibilities
- Result: Single Modeling Dataset

### AFTERNOON

#### Breakout Session #3: Modeling and Evaluation

- Build Decision Trees, Regression, and Neural Networks
- Assess Results
- Rebuild Models, Changing Modeling Parameters

**Breakout Session #4: Model Evaluation and Assessment**

- Score Models on Testing Data
- Rank Variable Importance to Models
- Create Mini-Report

**Team Meeting #4**

- Summarize Modeling Results
- Assess Which Modeling Techniques Worked and Didn't Work
- Determine Needs for More Data Pre-Processing and Modeling
- Assign Responsibilities

**Breakout Session #5: Re-visit Modeling**

- Create Final Models
- Create Mini-Report
- Score Models on Validation Data

**Team Meeting #5**

- Select Final Model to Use (if any)
  - Explain Reason for Selection
  - Assess Trade-offs Between Models
- Assign List of Action Items Pending