# **Results and Analysis**

## 1. Model Outputs

### Decision Tree Model

o Achieved Valid Average Squared Error (VASE): 0.11199

o Misclassification Rate: 15.74%

### Neural Network Model

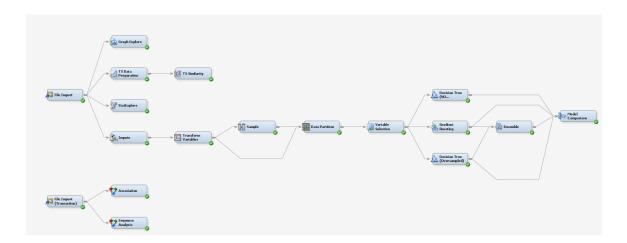
Average Squared Error: 0.12675Misclassification Rate: 17.47%

### Gradient Boosting Model

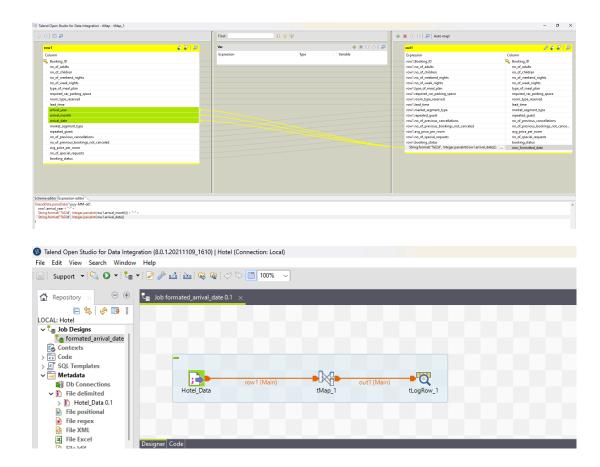
Average Squared Error: 0.12800Misclassification Rate: 17.70%

## 2. Output for each tools

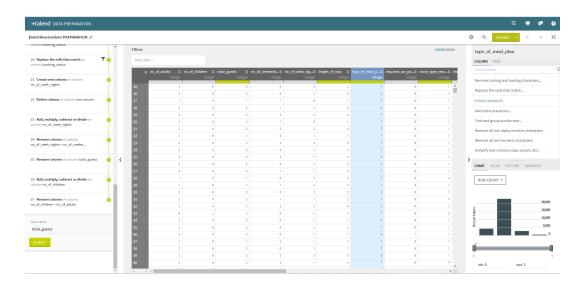
### • SAS Enterprise Miner



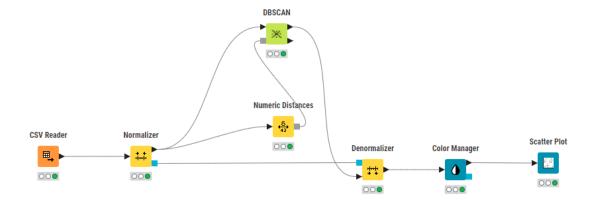
## • Talend Open Studio for Data Integration



## • Talend Data Preparation



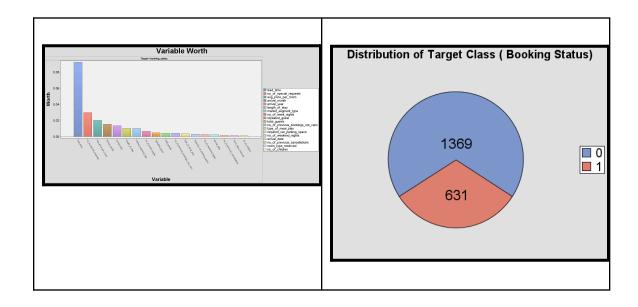
## Knime

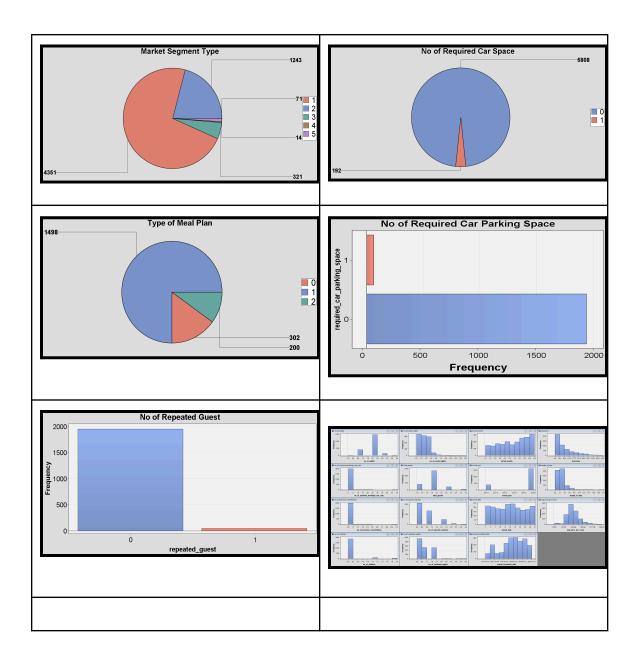


## 3. Visualizations

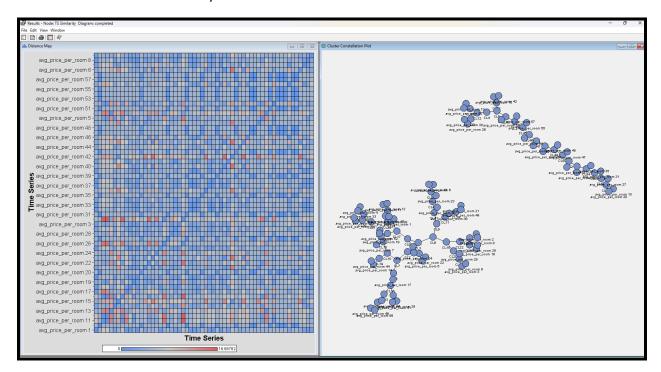
# • Explore Stage

Exploratory Data Analysis

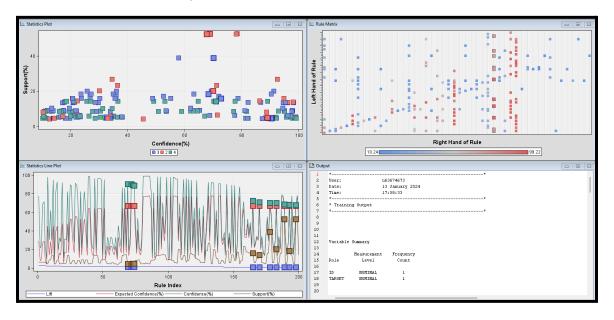




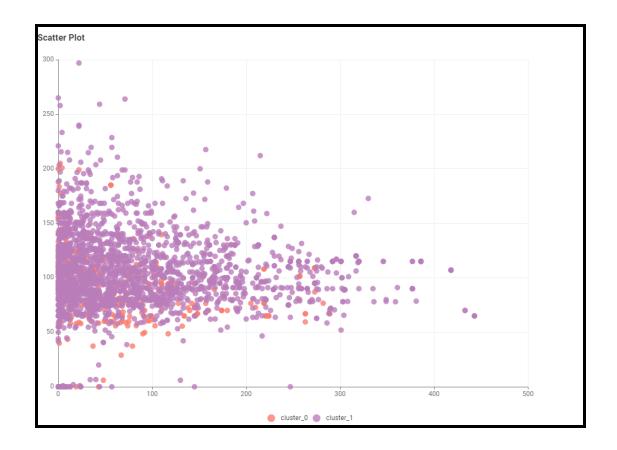
#### Time series Analysis



#### Association Analysis



### DBSCAN Clustering



# • Modelling Stage

o Decision tree

