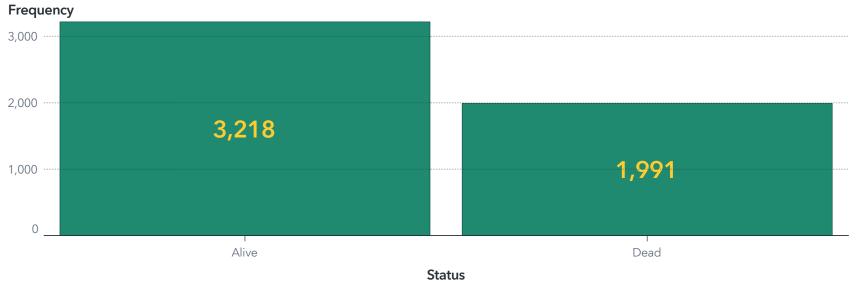
IS-429 Lab Week#14 Models Build & Comparison 00000054804

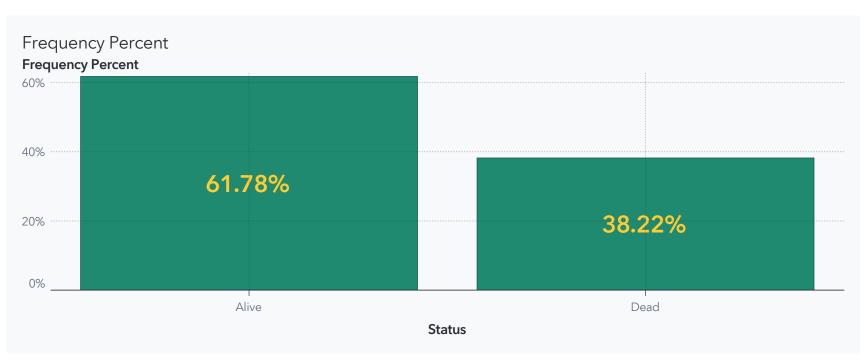
Creation Date: Tuesday, May 30, 2023 03:01:53 PM Author: christopher.darren@student.umn.ac.id

IS-429 Lab Week#14 00000054804-Christopher Darren

Data Exploration

Frequency, Frequency Percent by Status

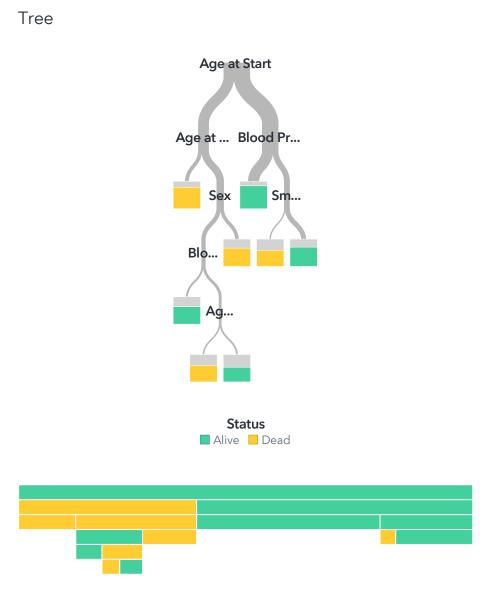




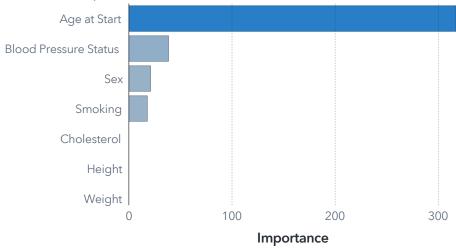
C45 Prediction Status

Decision Tree of Status

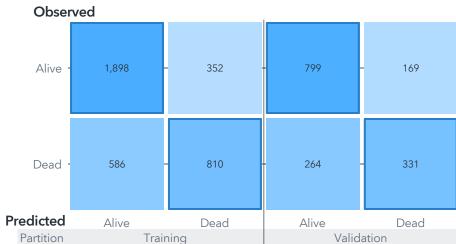
Decision Tree Status (event=Dead) Misclassification Rate 0.2573 Observations Used 5,209







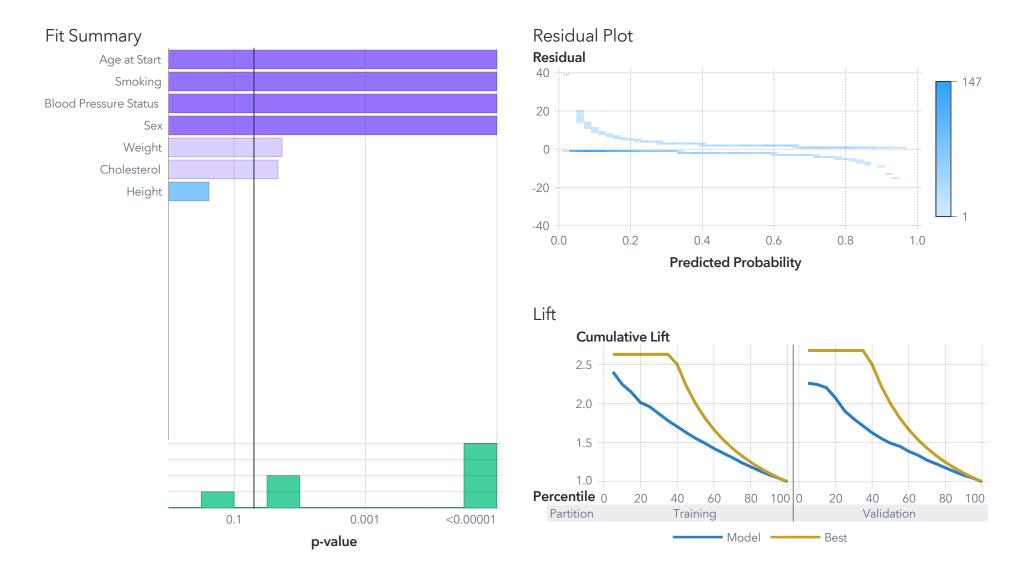
Confusion Matrix



Logistic Regression

A logistic regression model requires that there be no missing values in any of the selected predictors; any patient with a missing values is excluded. In this case, that meant we had to throw away 170 of the patients. That's a small number here, but it is important to consider when we are looking at other datasets.

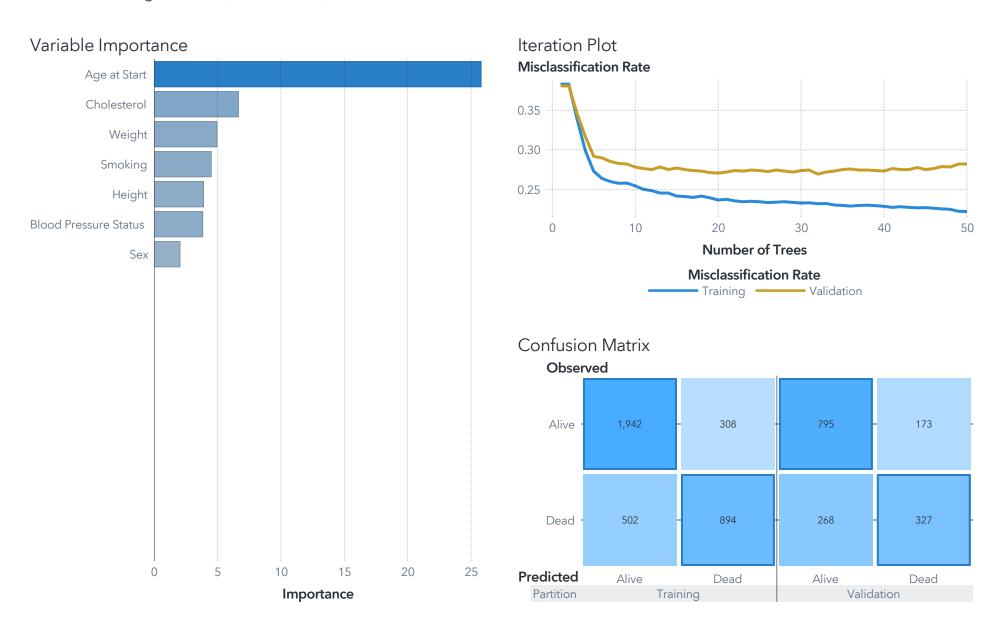
Logistic Regression Status (event=Dead) Misclassification Rate (Event) 0.2568 Observations Used 5,039 Unused 170



Gradient Boost

Gradient Boosting of Status

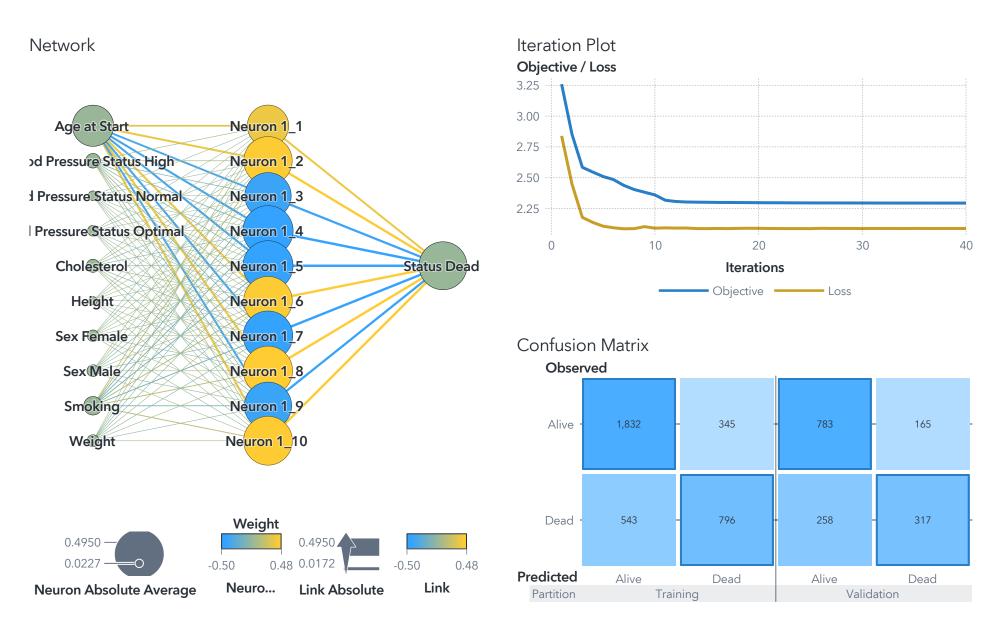
Gradient Boosting Status (event=Dead) Misclassification Rate 0.2222 Observations Used 5,209



Neural Network

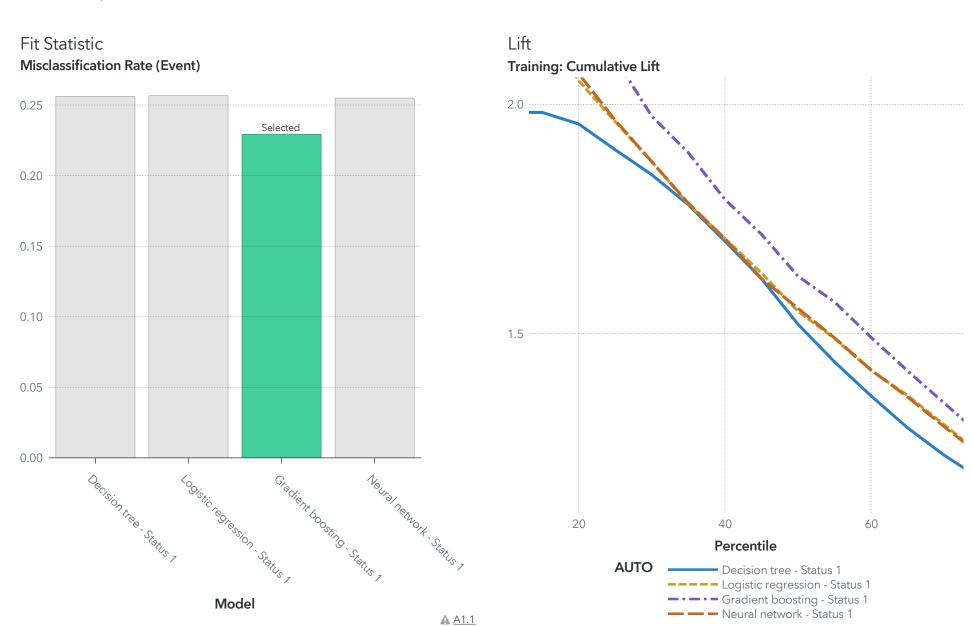
Neural Network of Status

Neural Network Status (event=Dead) Misclassification Rate 0.2526 Observations Used 5,039 Unused 170



MODEL SELECTION & SCORING

Model Comparison Status (event=Dead)



Appendix

A1.1 Fit Statistic

Warnings:

Number of observations for all models do not match.