Lab Assignment 2

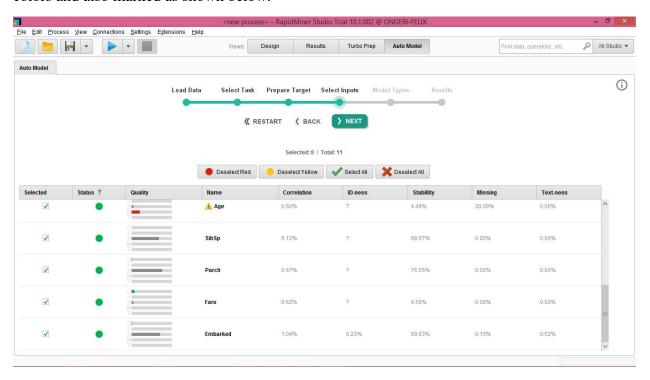
Were Vincent Ouma

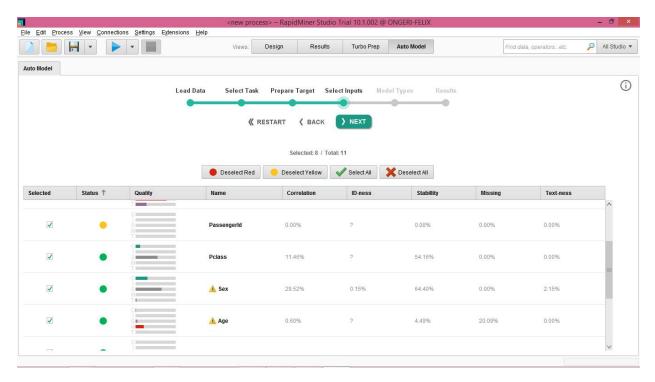
BUSINESS ANALYTICS: DATA, MODELS AND DECISIONS

Homework 10

Question I

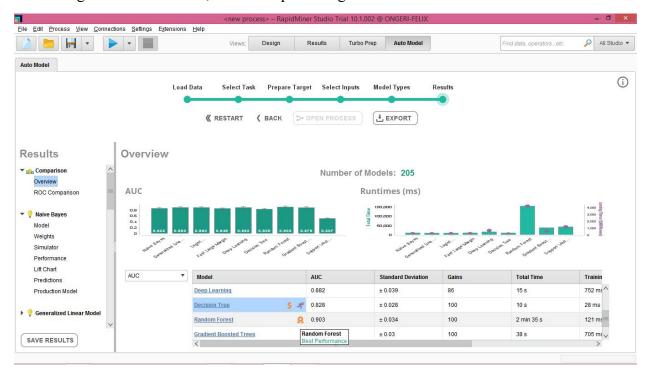
The variables included in the model as predictors were Passenger ID, sex, Pclas, Fare, Embarked, Parch, Age and SibSP. These variables were flaged with either Orange or Green colors and also marked as shown below.





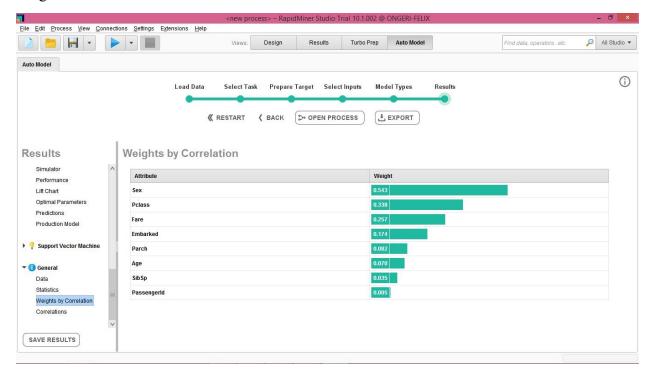
Question II

Random forest was found to be the best algorithm for the prediction. This is because it had the highest AUC of 0.903, this led to producing the best outcome.



Question III

Sex was the most important predictor in the model. This can be determined by the weights in the correlations as shown below.



Question IV

The file for the Random forest algorithm is exported as RandomForestPredictions.xls