Capstone 3 Insurance Fraud model Metrics File

Parameters: The parameters for this project were predicting fraud ‘Y’ or ‘N’. By using classifying models I was predicting yes or no.

Hyperparameters: the hyperparameters are all the data that was about the accident and insured.

The machine learning models I chose to use were decision tree, ada boosting, and gradient boosting. The data was unbalanced so I ran it unbalanced and the balanced with SMOTE. Gradient boosting produced the best results

Performance metrics Gradient Boosting: without SMOTE

A screenshot of a graph

Description automatically generated

Performance metrics Gradient boosting: with SMOTE

A screenshot of a computer screen

Description automatically generated