## **Capstone 2 Model Description and Performance**

# **Model Description**

Model Type: Random Forest Classifier

# **Optimized Model Parameters:**

n\_estimators=20, # Number of trees in the forest

max\_depth=4, # Maximum depth of the tree nodes

min\_samples\_split=3, # Minimum number of samples required to split an internal node

max\_features='log2'

## **Model Performance**

#### **Performance on Validation Dataset:**

Confusion Matrix = [[241 41]

[225 37]]

Precision = 0.47

Recall = 0.14

AUC/ROC = 0.50

