Assignment 2: Building Classification Models

Accuracy and Confusion Matrix

By: Garrison Kaiser

Logistic Regression

Accuracy: 0.96

Confusion Matrix:

[[116 2]

[ 5 52]]

KNN (k=5)

Accuracy: 0.9771428571428571

Confusion Matrix:

[[116 2]

[ 2 55]]

Linear SVM

Accuracy: 0.9657142857142857

Confusion Matrix:

[[116 2]

[ 4 53]]

Kernel SVM (rbf)

Accuracy: 0.9657142857142857

Confusion Matrix:

[[115 3]

[ 3 54]]

Naïve Bayes

Accuracy: 0.96

Confusion Matrix:

[[113 5]

[ 2 55]]

Decision Tree

Accuracy: 0.9428571428571428

Confusion Matrix:

[[114 4]

[ 6 51]]

Random Forest

Accuracy: 0.9542857142857143

Confusion Matrix:

[[114 4]

[ 4 53]]

XGBoost

Accuracy: 0.96

Confusion Matrix:

[[115 3]

[ 4 53]]