

Random Forest Classifier {'random_state': 1701,
'n_estimators': 1600,
'min_samples_split': 2,
'min_samples_leaf': 1,
'max_features': 'auto',
'max_depth': 50,
'criterion': 'entropy',
'bootstrap': False}

AUC Score = .98

Metrics at .5 threshold

Accuracy = 92.8%

Random Forest
Accuracy: 92.8%
Precision: Fake News: 91% Real News: 93%
Recall: Fake News: 87% Real News: 96%
F1: Fake News: 89% Real News: 95%

Accuracy at .35 threshold

Random Forest
Accuracy 90% (from classification report)
Precision Fake News: 97% Real News: 88%
Recall: Fake News: 74% Real News: 99%
F1: Fake News: 84%

Real News: 93%