

Decision Tree Results:

Params: {'max_depth': 3, 'min_samples_split': 2}, Accuracy: 0.9649

Params: {'max_depth': 5, 'min_samples_split': 2}, Accuracy: 0.9532

Params: {'max_depth': 5, 'min_samples_split': 5}, Accuracy: 0.9532

Params: {'max_depth': 10, 'min_samples_split': 2}, Accuracy: 0.9415

Params: {'max_depth': 10, 'min_samples_split': 10}, Accuracy: 0.9298

Random Forest Results:

Params: {'n_estimators': 50, 'max_depth': 5}, Accuracy: 0.9649

Params: {'n_estimators': 100, 'max_depth': 5}, Accuracy: 0.9649

Params: {'n_estimators': 100, 'max_depth': 10}, Accuracy: 0.9708

Params: {'n_estimators': 200, 'max_depth': 10}, Accuracy: 0.9708

Params: {'n_estimators': 200, 'max_depth': None}, Accuracy: 0.9708

AdaBoost Results:

Params: {'n_estimators': 50, 'learning_rate': 0.1}, Accuracy: 0.9591

Params: {'n_estimators': 100, 'learning_rate': 0.1}, Accuracy: 0.9532

Params: {'n_estimators': 100, 'learning_rate': 0.5}, Accuracy: 0.9649

Params: {'n_estimators': 200, 'learning_rate': 0.5}, Accuracy: 0.9708

Params: {'n_estimators': 200, 'learning_rate': 1.0}, Accuracy: 0.9825