

Model Comparison Report

Summary of Results

Model: svc

Best Parameters: {'classifier__C': 0.1, 'classifier__gamma': 'scale', 'classifier__kernel': 'rbf'}

Best Cross-Validation Score: 0.5743

Best Standard Deviation: 0.0224

Model: rfc

Best Parameters: {'classifier__max_depth': None, 'classifier__max_features': 'sqrt', 'classifier__min_samples_leaf': 1}

Best Cross-Validation Score: 0.5157

Best Standard Deviation: 0.0792

Model: logreg

Best Parameters: {'classifier__C': 0.1, 'classifier__max_iter': 100, 'classifier__solver': 'lbfgs'}

Best Cross-Validation Score: 0.5548

Best Standard Deviation: 0.0873

Model: xgboost

Best Parameters: {'classifier__colsample_bytree': 0.7, 'classifier__learning_rate': 0.001, 'classifier__max_depth': 6}

Best Cross-Validation Score: 0.5748

Best Standard Deviation: 0.0450

Model: dtc

Best Parameters: {'classifier__max_depth': None, 'classifier__max_features': 'sqrt', 'classifier__min_samples_leaf': 1}

Best Cross-Validation Score: 0.5048

Best Standard Deviation: 0.0330

Model: nbayes

Best Parameters: {}

Best Cross-Validation Score: 0.4352

Best Standard Deviation: 0.0701

Model: mlp

Best Parameters: {'classifier__activation': 'tanh', 'classifier__alpha': 0.0001, 'classifier__hidden_layer_sizes': (10, 10, 10)}

Best Cross-Validation Score: 0.5257

Best Standard Deviation: 0.1742

Model: voting-algorithm

Best Parameters: {}

Best Cross-Validation Score: 0.4452

Best Standard Deviation: 0.0749