Machine Learning Model Report

Date of the report generation: 26-08-2024 13:41:22

Data Summary

Number of features: 13

Number of target labels: 1

Number of samples: 1025

Model Summary

Task: Binary Classification

Model: SVC

Hyperparameters: {'C': 20.62, 'break_ties': False, 'cache_size': 200, 'class_weight': None, 'coef0': 0.0, 'decision_function_shape': 'ovr', 'degree': 3, 'gamma': 0.01, 'kernel': 'rbf', 'max_iter': -1, 'probability': False, 'random_state': None, 'shrinking': True, 'tol': 0.001, 'verbose': False}

Train/Test Split: 820/205
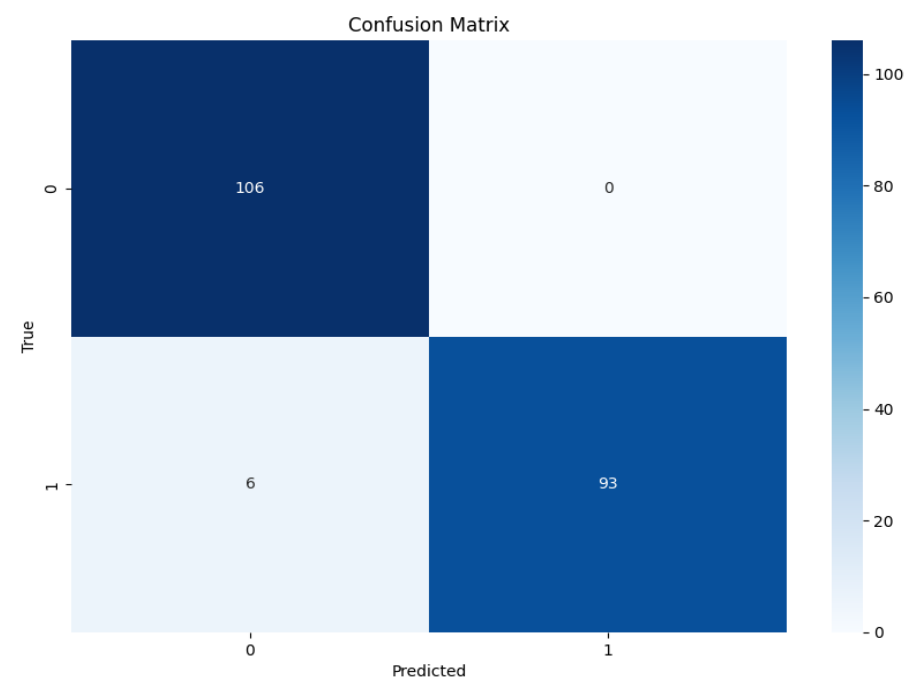
Model Performance

Train Accuracy: 100.0000 %

Test Accuracy: 97.0732 %

Classification Report:

```
              precision    recall   f1-score     support
0              0.946429  1.000000   0.972477  106.000000
1              1.000000  0.939394   0.968750   99.000000
accuracy       0.970732  0.970732   0.970732    0.970732
macro avg      0.973214  0.969697   0.970614  205.000000
weighted avg   0.972300  0.970732   0.970677  205.000000
```

Machine Learning Model Report

Confusion Matrix

Class Distribution