

Heart Failure Prediction

A Classification Models Evaluation Assignment

Interactively explore 6 trained classification models performance for [Heart Failure Prediction](#) data from Kaggle.

The trained models are:

1. Logistic Regression
2. Decision Tree Classifier
3. K-Nearest Neighbor Classifier
4. Naive Bayes Classifier (Gaussian)
5. Ensemble Model - Random Forest
6. Ensemble Model - XGBoost

The target/outcome variable:

- `y = 0 => Not Dead` → Survived
- `y = 1 => Dead` → Not Survived

Select a model and upload the test data to view the evaluation metrics for the model.

 Download test data

Select Model

Ensemble Model - Random Forest



Upload test data file for model evaluation



Drag and drop file here
Limit 200MB per file • CSV

Browse files



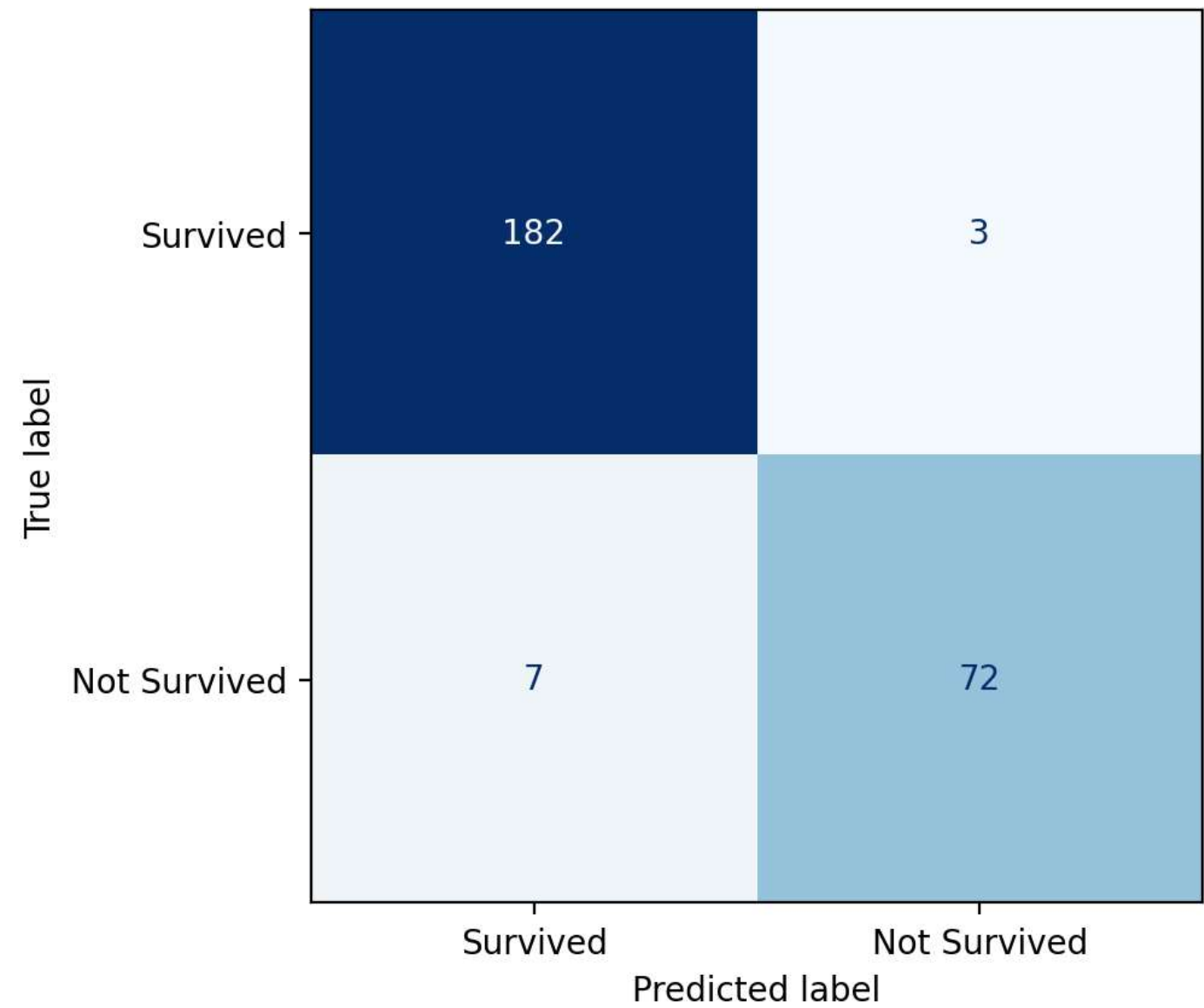
test_data (4).csv 11.1KB



Evaluation Metrics

	Accuracy	AUC	Precision	Recall	F1	MCC
Ensemble Model - Random Forest	0.9620	0.9850	0.9600	0.9110	0.9350	0.9090

Confusion Matrix (Ensemble Model - Random Forest)



Classification Report (Ensemble Model - Random Forest)

	precision	recall	f1-score	support
Survived	0.9630	0.9838	0.9733	185.0000
Not Survived	0.9600	0.9114	0.9351	79.0000
accuracy	0.9621	0.9621	0.9621	0.9621
macro avg	0.9615	0.9476	0.9542	264.0000
weighted avg	0.9621	0.9621	0.9618	264.0000