

# Cardiac Risk & Regression Lab (synthetic demo)

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Rows: 8000 Seed: 42

Test fraction: 0.25 Threshold: 0.5

## Training summary

Rows: 8,000 | Seed: 42 | Test fraction: 0.25

Logistic Regression (event\_30d):

Threshold: 0.50

Accuracy: 0.693

ROC AUC: 0.714

Confusion matrix: [[1147, 125], [490, 238]]

Ridge Regression (ntprobnp):

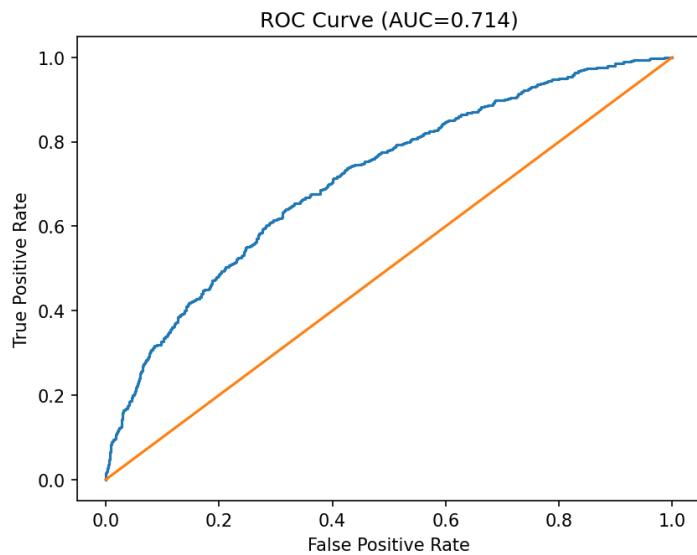
MAE: 82.1

RMSE: 94.9

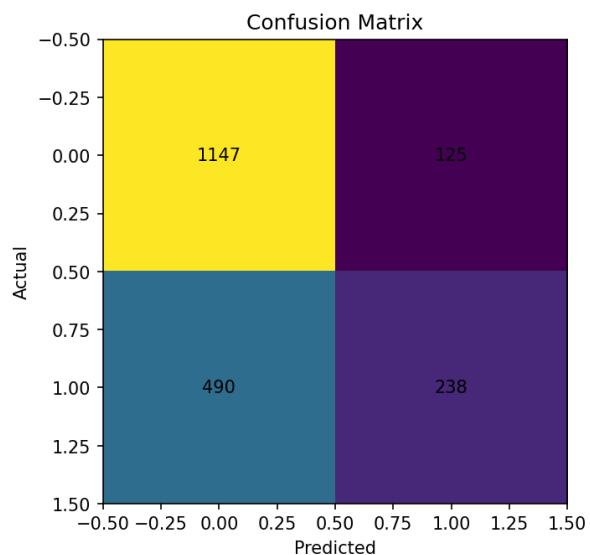
R<sup>2</sup>: 0.773

## Plots

### ROC Curve



### Confusion Matrix



## Regression: Predicted vs Actual NT-proBNP

