🩺 Heart Attack Risk Prediction Dashboard

Interactive summary of model performance, fairness, and clinical/business insights.

📈 Model Performance   ⚖️ Fairness & Ethics   🩺 Clinical Interpretation

Overall Model Metrics

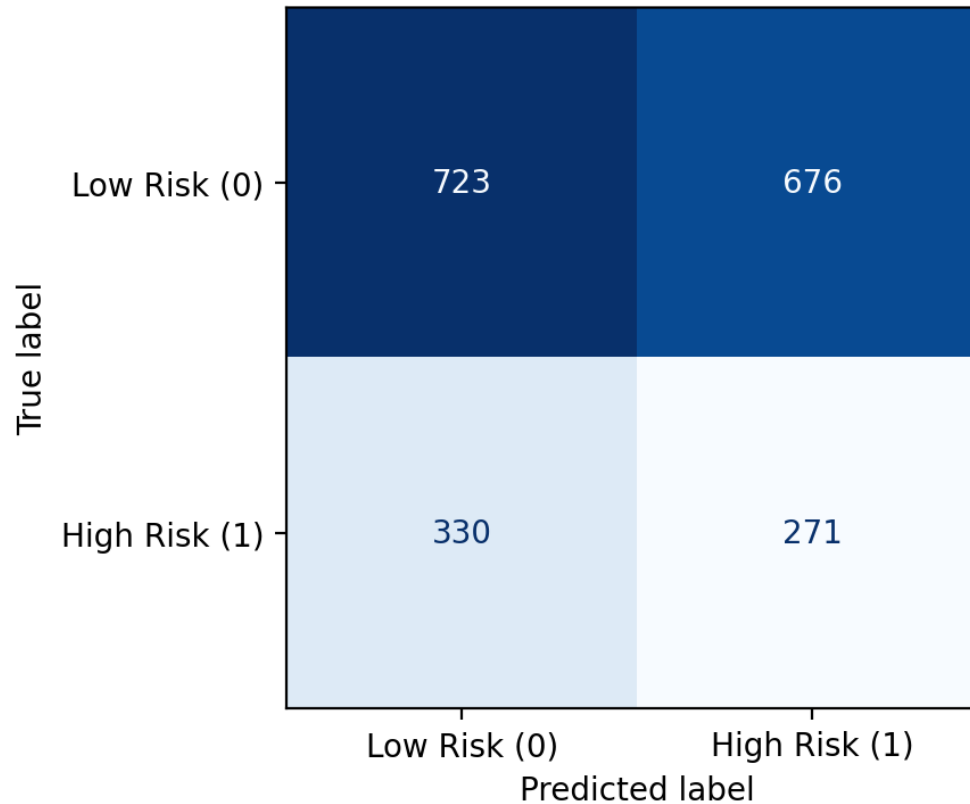|	model	recall_pos_class	precision_pos_class	↑ f1_pos_class	roc_auc	accuracy
0	Logistic Regression	0.53	0.50	0.51	0.58	0.50

Why Recall matters:

Recall on the positive class tells us how many truly high-risk patients we correctly flag.
Missing a high-risk patient (False Negative) can mean no early intervention.
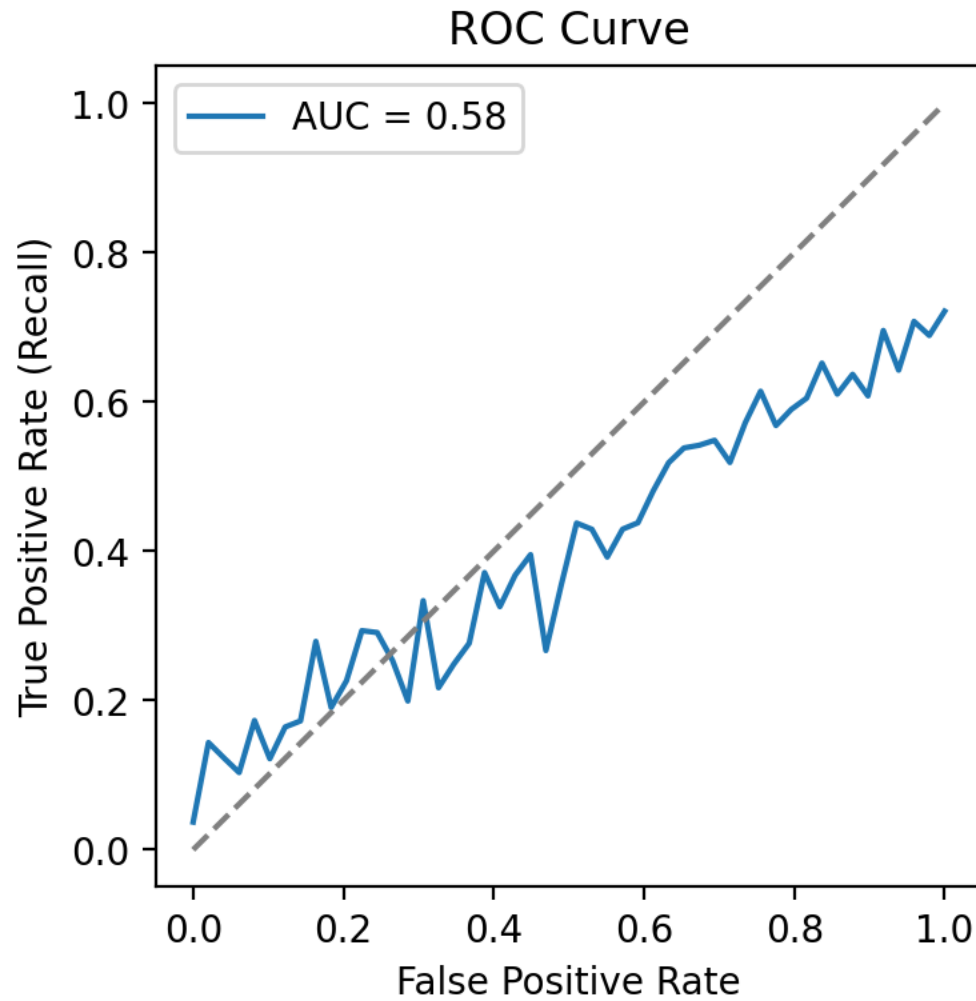
Confusion Matrix

Confusion Matrix (Test Set)

Interpretation:

- True Negatives (TN): 723 patients correctly identified as low risk
- False Positives (FP): 676 patients unnecessarily flagged as high risk
- False Negatives (FN): 330 high-risk patients were *missed* (most clinically concerning)
- True Positives (TP): 271 high-risk patients correctly flagged

ROC Curve (Test Set)

AUC describes class separability. AUC close to 1 is ideal. Lower AUC means risk classes overlap and the model is best used as a triage aid, not a final diagnostic system.