Task 5: Evaluation Report – Heart Disease Dataset

Objective: Evaluate Logistic Regression using train-test split and standard metrics.

Dataset Split: 80% training data and 20% testing data.

Model Used: Logistic Regression

Accuracy: 0.78
Precision: 0.78
Recall: 0.77

Confusion Matrix:
[[81, 23], [24, 82]]

Interpretation: The model demonstrates reasonable predictive performance. Accuracy reflects overall correctness, precision indicates reliability of positive predictions, and recall measures the model's ability to detect heart disease cases. The confusion matrix provides a detailed breakdown of prediction errors.