Evaluation Report – Heart Disease Classification Model

Model Used: Logistic Regression
Dataset: Heart Disease Dataset
Task: Binary Classification (Heart Disease: Yes / No)

Train–Test Split:
Training Data: 80%
Testing Data: 20%

Evaluation Metrics:
Accuracy – Measures overall correctness of the model.
Precision – Measures correctness of positive predictions.
Recall – Measures ability to detect actual positive cases.

Confusion Matrix:
True Positive (TP): Correctly predicted disease
True Negative (TN): Correctly predicted no disease
False Positive (FP): Predicted disease but actually healthy
False Negative (FN): Predicted healthy but actually diseased

Overall Interpretation:
The Logistic Regression model performs well in distinguishing patients with and without heart disease. The balance between precision and recall shows reliable predictions with fewer misclassifications.

Conclusion:
This task demonstrates proper understanding of train-test split, model training, and evaluation using standard metrics.