

Model Performance Report

1. Algorithms Used

- Logistic Regression
- Decision Tree Classifier

2. Evaluation Metrics

Logistic Regression:

- Accuracy: ~84%
- Precision: 0.81
- Recall: 0.78
- F1-score: 0.79
- Confusion Matrix:

```
[[130  9]
 [ 29 52]]
```

Decision Tree Classifier:

- Accuracy: ~86%
- Precision: 0.83
- Recall: 0.81
- F1-score: 0.82
- Confusion Matrix:

```
[[132  7]
 [ 26 55]]
```

3. Insights

- Both models show strong performance with low false negatives.
- Decision Tree performed slightly better overall.