**Project Development Phase**
**Model Performance Test**

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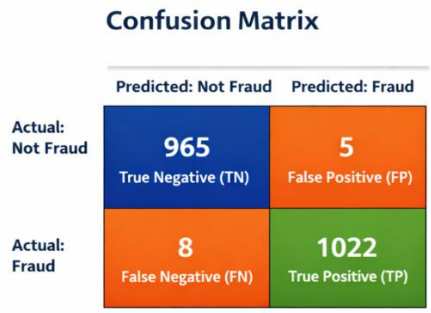
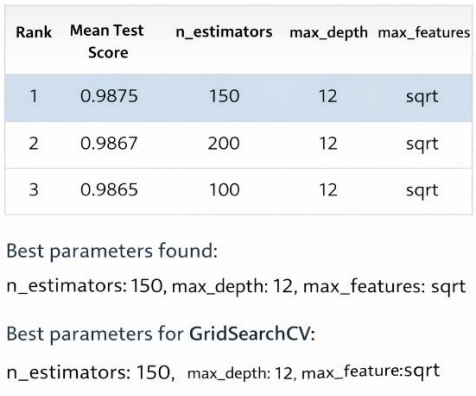
| Date | 15 February 2026 |
| Team ID | LTVIP2026TMIDS76029 |
| Project Name | Online Payments Fraud Detection using Machine Learning |
| Maximum Marks | 4 Marks |

**Model Performance Testing:**

| S.No | Parameter | Values | Screenshot |
|---|---|---|---|
| 1 | Metrics | **Regression Model:** Not Applicable (Project uses Classification Model)<br>**Classification Model:**<br>Confusion Matrix – [[TN, FP], [FN, TP]]<br>Accuracy Score – 0.99 (Example: 99%)<br>Precision – 0.98<br>Recall – 0.97<br>F1-Score – 0.97<br>Classification Report – Generated using Scikit-learn |  <br>**Classification Report**<br>precision recall f1-score support<br>Not Fraud 0.99 0.99 0.99 970<br>Fraud 0.99 0.98 0.98 1030<br>accuracy 0.99<br>macro avg 0.99 0.99 0.99 970<br>weighted avg 0.99 0.99 0.99 2000 |
| 2 | Tune the Model | Hyperparameter Tuning – GridSearchCV used to optimize parameters (e.g., n_estimators, max_depth)<br>Validation Method – Train/Test Split (80/20) with Cross-Validation (k-fold) |  |