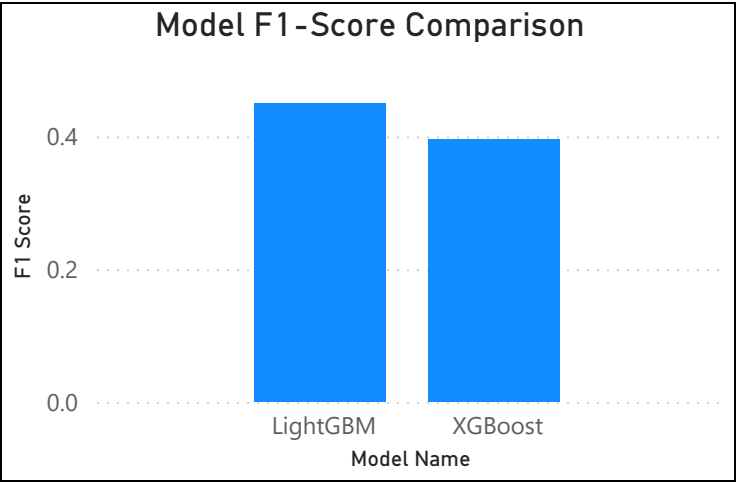
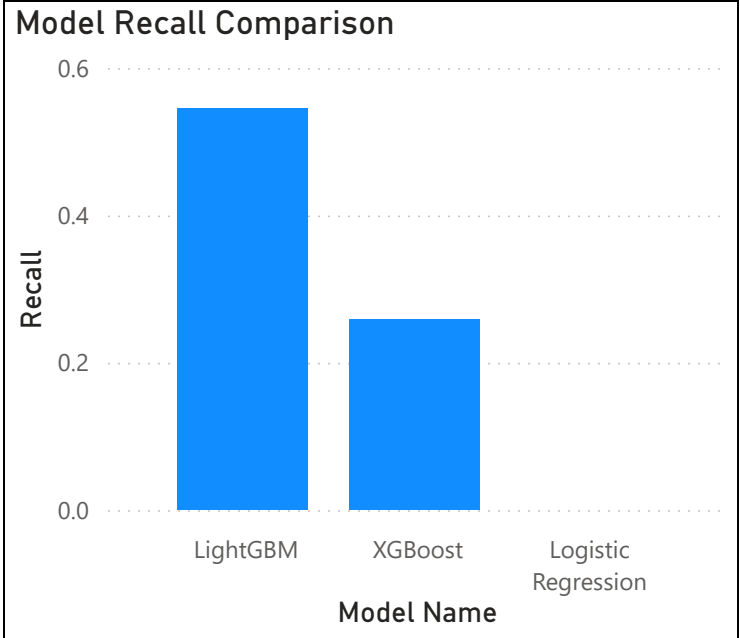
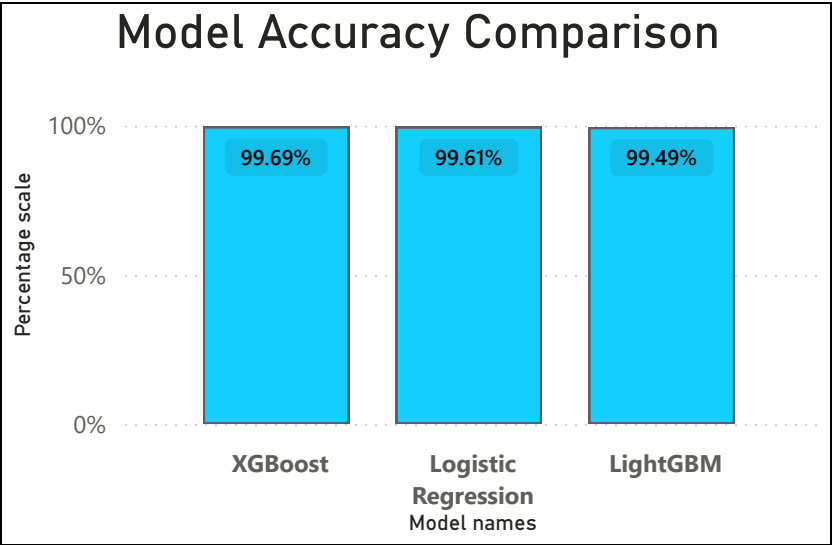
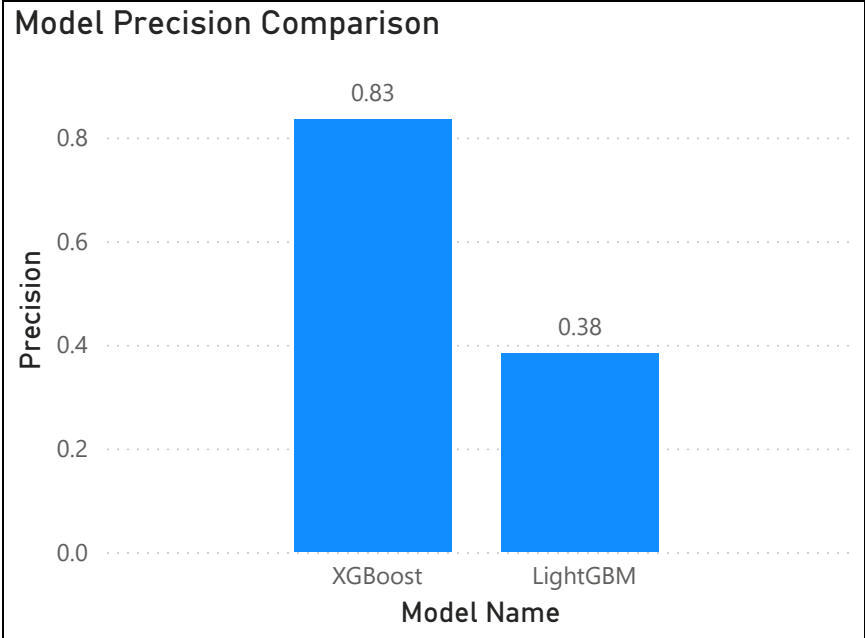


Model Evaluation Dashboard

| Confusion Matrix Summary | | | | | | | | |
|--------------------------|------|------|--------|------|-----------|--------|----------|----------|
| Model Name | TP | FP | TN | FN | Precision | Recall | F1 Score | Accuracy |
| LightGBM | 1170 | 1884 | 551690 | 975 | 0.38 | 0.55 | 0.45 | 0.99 |
| Logistic Regression | 0 | 0 | 553574 | 2145 | | 0.00 | | 1.00 |
| XGBoost | 556 | 110 | 553464 | 1589 | 0.83 | 0.26 | 0.40 | 1.00 |
| Total | | | | | | | | |



"XGBoost achieved the highest precision and recall, making it the most reliable model for detecting fraudulent transactions. LightGBM also performed well in recall but had lower precision."



Key Metrics & Trends in Fraudulent Transactions

Total Transactions

999

Total Fraud Cases

9651

Total Transaction Amount

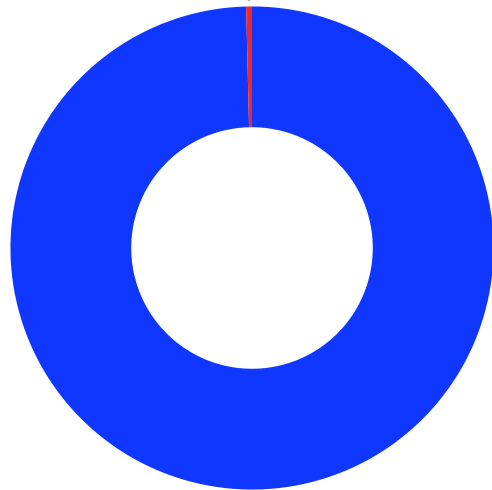
129.79M

Fraud Rate (%)

52.10%

Fraud vs Non-Fraud Transaction Distribution

0.01M (0.39%)



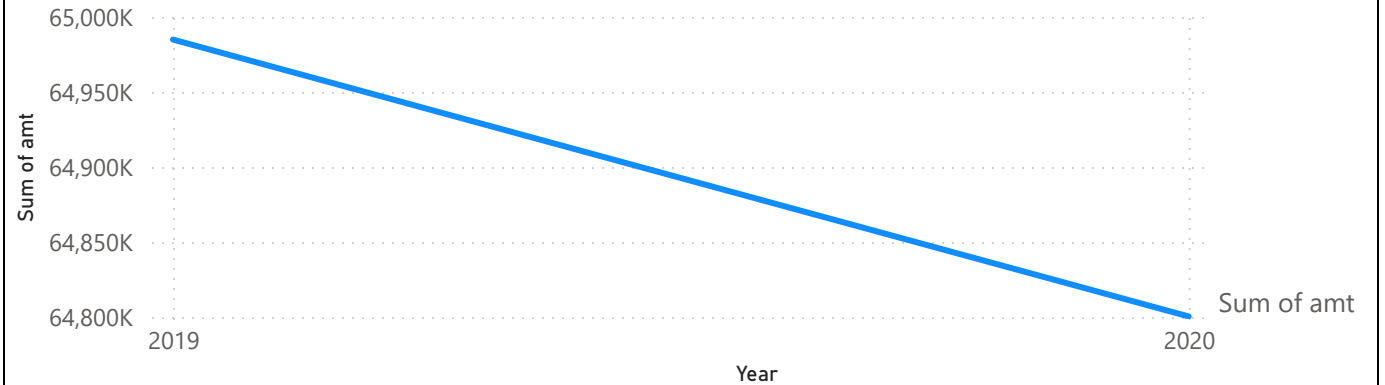
1.66M (99.61%)

Fraud_Label

● Non-Fraud

● Fraud

Total Transaction Amount per Year



Fraud Cases Over Time

