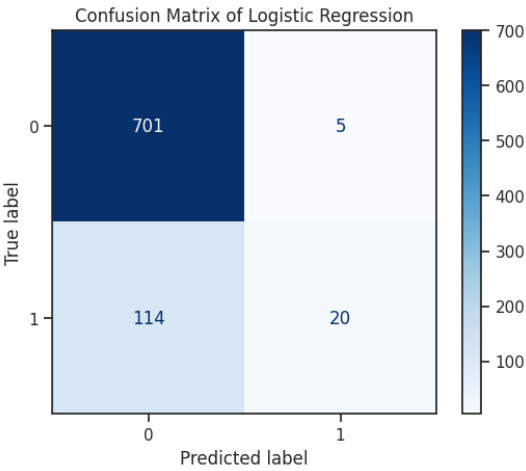


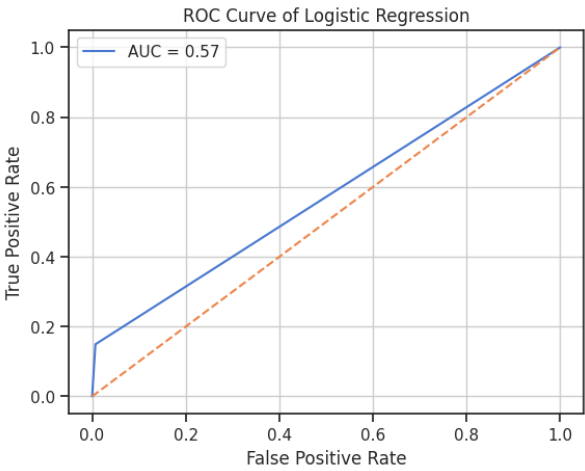
Model: Logistic Regression

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.86 | 0.99 | 0.92 | 706 |
| 1 | 0.80 | 0.15 | 0.25 | 134 |
| accuracy | | | 0.86 | 840 |
| macro avg | 0.83 | 0.57 | 0.59 | 840 |
| weighted avg | 0.85 | 0.86 | 0.81 | 840 |

Confusion Matrix



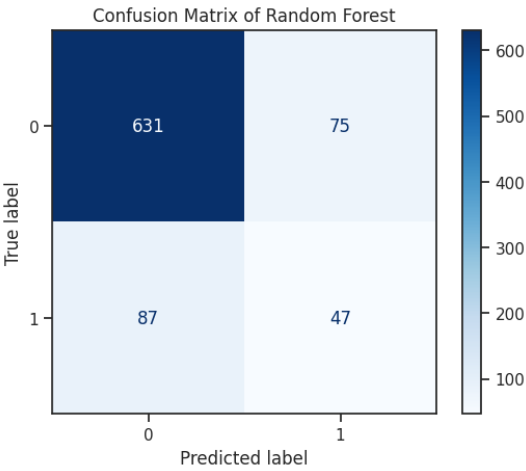
ROC Curve



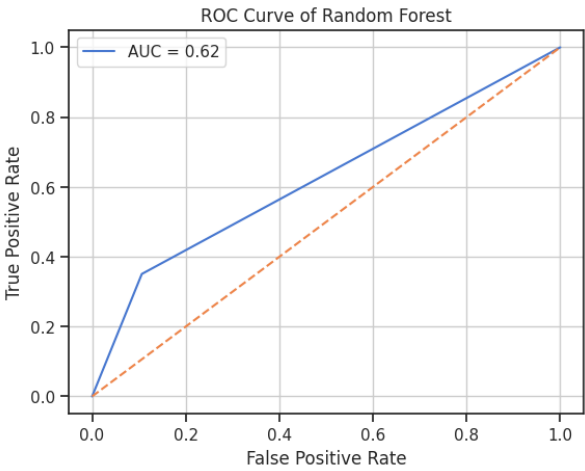
Model: Random Forest

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.88 | 0.89 | 0.89 | 706 |
| 1 | 0.39 | 0.35 | 0.37 | 134 |
| accuracy | | | 0.81 | 840 |
| macro avg | 0.63 | 0.62 | 0.63 | 840 |
| weighted avg | 0.80 | 0.81 | 0.80 | 840 |

Confusion Matrix



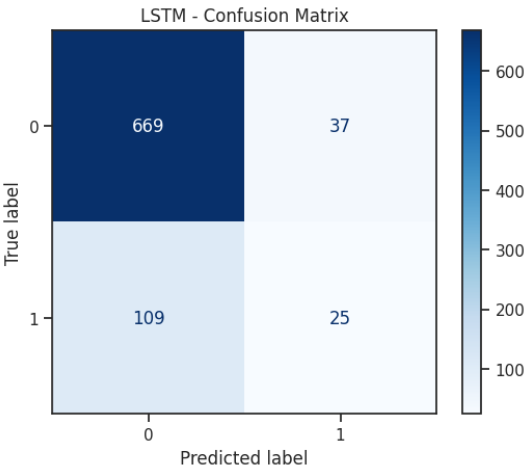
ROC Curve



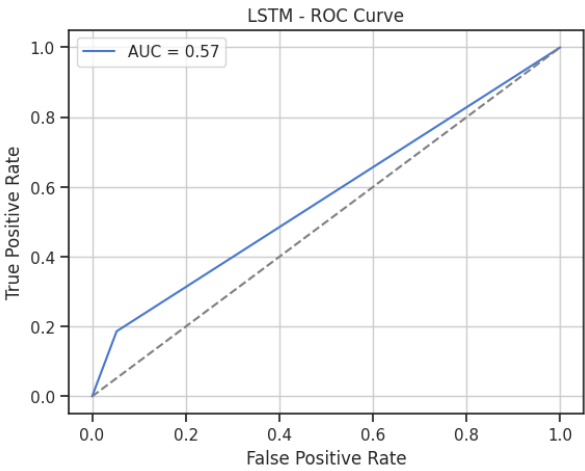
Model: LSTM

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.86 | 0.95 | 0.90 | 706 |
| 1 | 0.40 | 0.19 | 0.26 | 134 |
| accuracy | | | 0.83 | 840 |
| macro avg | 0.63 | 0.57 | 0.58 | 840 |
| weighted avg | 0.79 | 0.83 | 0.80 | 840 |

Confusion Matrix



ROC Curve



Model Performance Summary

| Model | Precision | Recall | F1 | Accuracy | Macro F1 | Weighted F1 |
|---------------------|-----------|--------|------|----------|----------|-------------|
| Logistic Regression | 0.80 | 0.15 | 0.25 | 0.86 | 0.57 | 0.86 |
| Random Forest | 0.39 | 0.35 | 0.37 | 0.81 | 0.62 | 0.81 |
| LSTM | 0.40 | 0.19 | 0.26 | 0.83 | 0.57 | 0.83 |