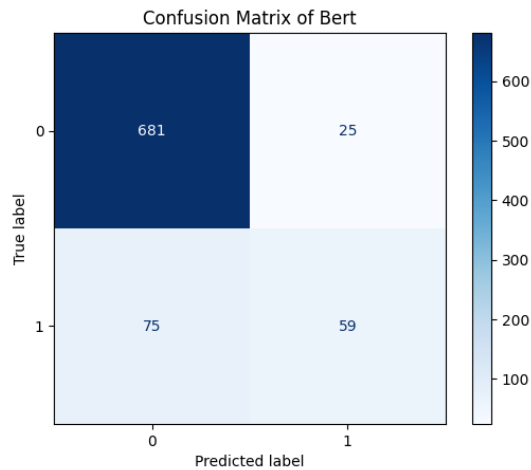


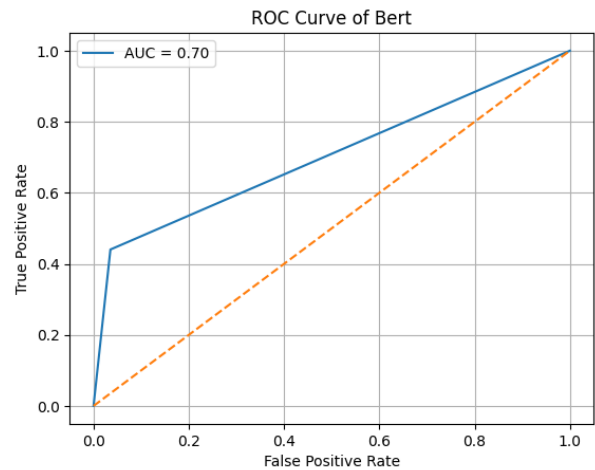
Model: BERT

	precision	recall	f1-score	support
0	0.90	0.96	0.93	706
1	0.70	0.44	0.54	134
accuracy			0.88	840
macro avg	0.80	0.70	0.74	840
weighted avg	0.87	0.88	0.87	840

Confusion Matrix



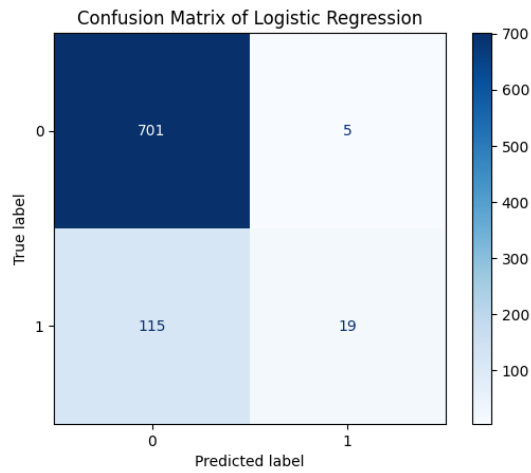
ROC Curve



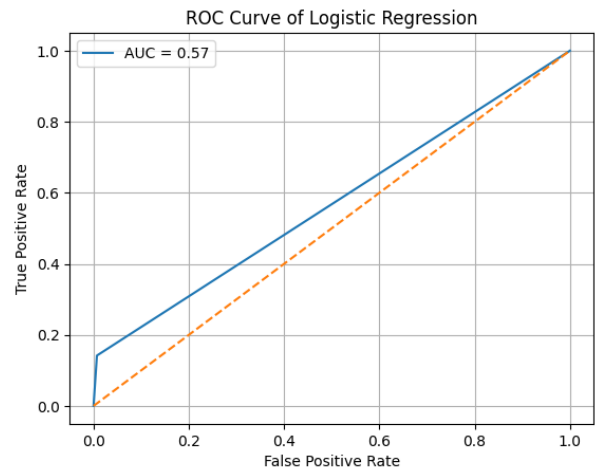
Model: Logistic Regression

	precision	recall	f1-score	support
0	0.86	0.99	0.92	706
1	0.79	0.14	0.24	134
accuracy			0.86	840
macro avg	0.83	0.57	0.58	840
weighted avg	0.85	0.86	0.81	840

Confusion Matrix



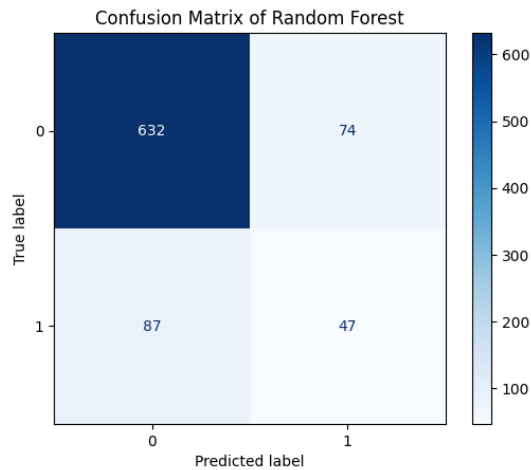
ROC Curve



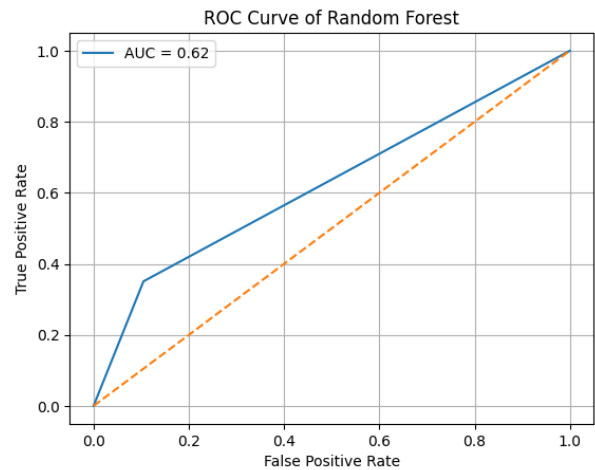
Model: Random Forest

	precision	recall	f1-score	support
0	0.88	0.90	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



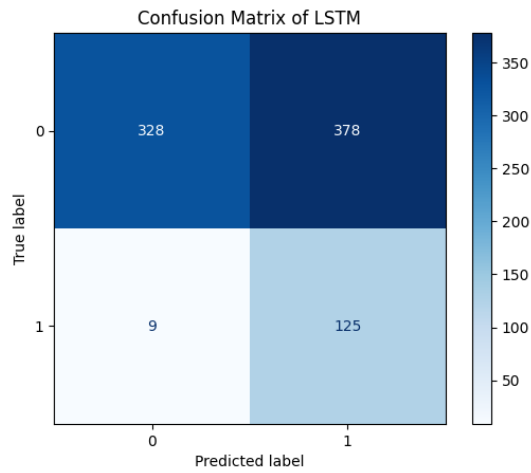
ROC Curve



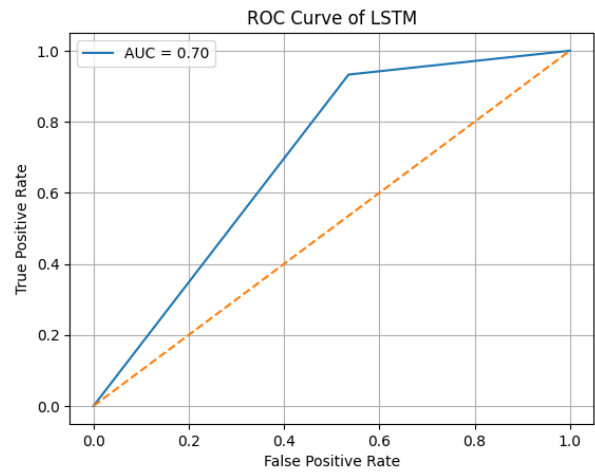
Model: LSTM

	precision	recall	f1-score	support
0	0.97	0.46	0.63	706
1	0.25	0.93	0.39	134
accuracy			0.54	840
macro avg	0.61	0.70	0.51	840
weighted avg	0.86	0.54	0.59	840

Confusion Matrix



ROC Curve



Model Performance Summary

Model	Precision	Recall	F1	Accuracy	Macro F1	Weighted F1
Logistic Regression	0.79	0.14	0.24	0.86	0.57	0.86
Random Forest	0.39	0.35	0.37	0.81	0.62	0.81
LSTM	0.25	0.93	0.39	0.54	0.70	0.54
BERT	0.70	0.44	0.54	0.88	0.74	0.87