

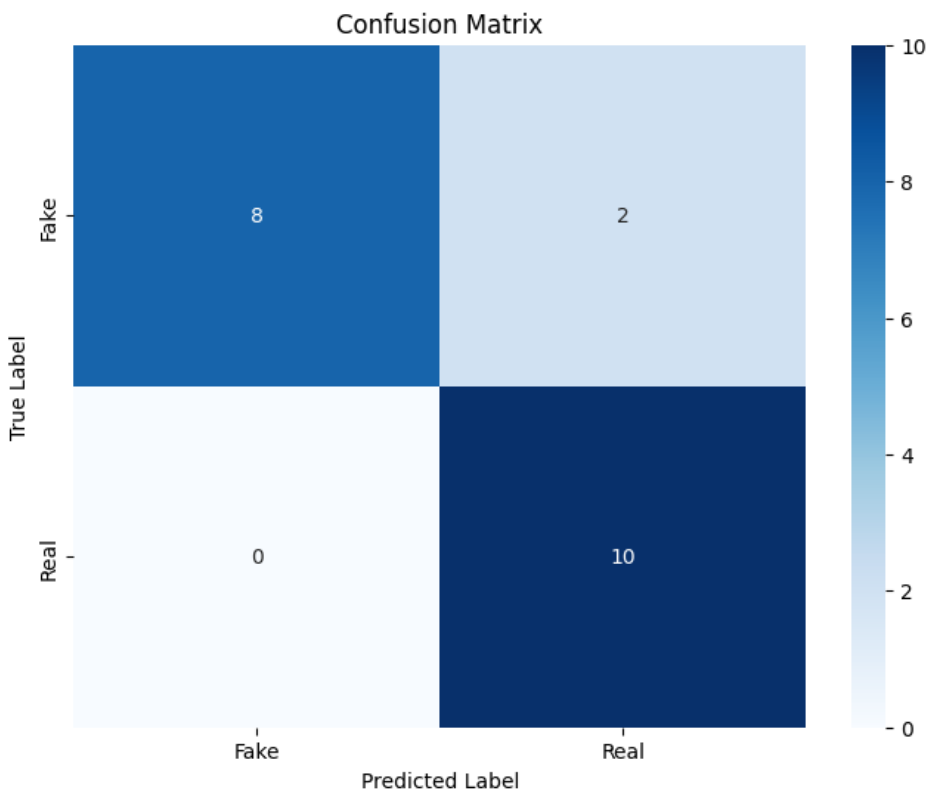
Group ID: F230218F24
Student ID: BC200401244
Name: Ahmad Aman

Model Evaluation Report

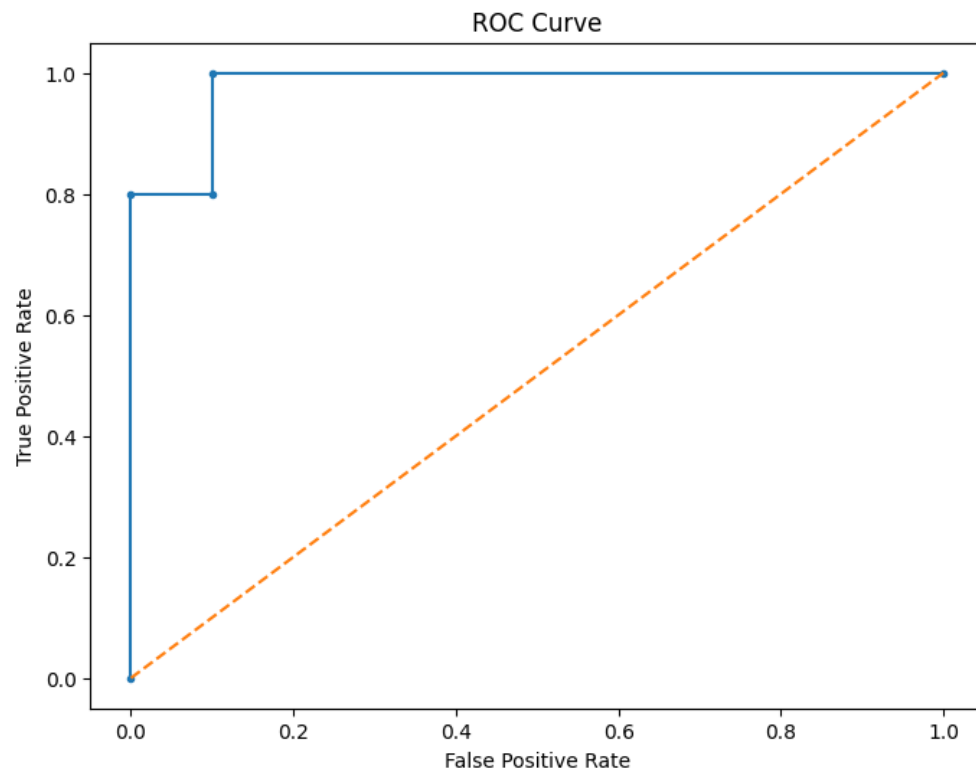
Model Name: FinalDeliverableModel_bc200401244.pth

Test Data Used	Accuracy	Precision	Recall	F1	ROC AUC	EER
Prototype Phase Data (20 samples total)	0.9000	0.8333	1.0000	0.9091	0.900	0.1000
Main Test Data (11,180 samples total)	0.9592	0.9280	0.9940	0.9599	0.9599	0.0216

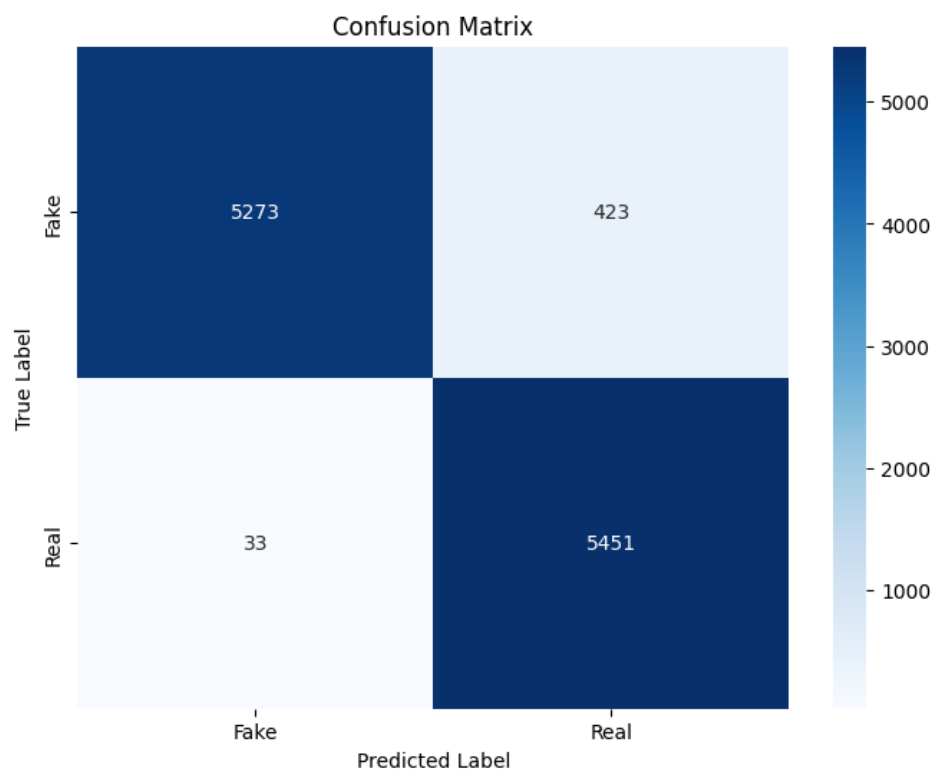
Confusion Matrix for Prototype Phase Data:



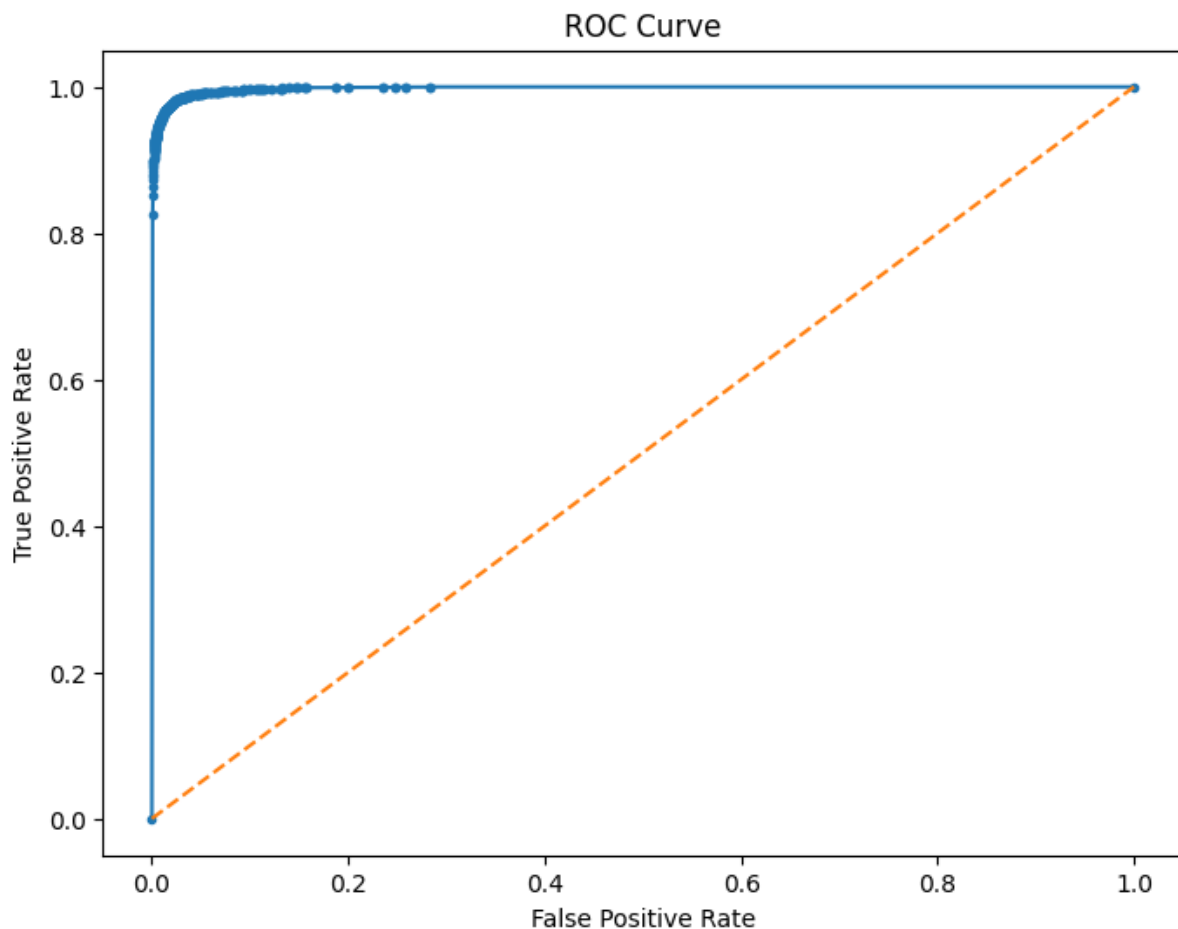
ROC Curve for Prototype Phase Data:



Confusion Matrix for Main Test Data:



ROC Curve for Main Test Data:



Legend:

Accuracy: It is the ratio of the number of correct predictions to the total number of predictions.

Precision: It is the ratio of true positives to the sum of true positives and false positives.

Recall: It is the ratio of true positives to the sum of true positives and false negatives.

F1 Score: It is the harmonic mean of precision and recall.

ROC AUC: This score is the area under the curve of the ROC (Receiver Operating Characteristic) curve. It tells the model's capability to differentiate the classes.

EER: This is the point at which the false acceptance rate equals the false rejection rate. Lower EER values indicate better performance.

Confusion Matrix: It is a $N \times N$ matrix where N is the number of classes, that represents the number of actual outputs and the predicted outputs.