

# Supplementary Figures

## Section 1: Exploratory Data Analysis (EDA)

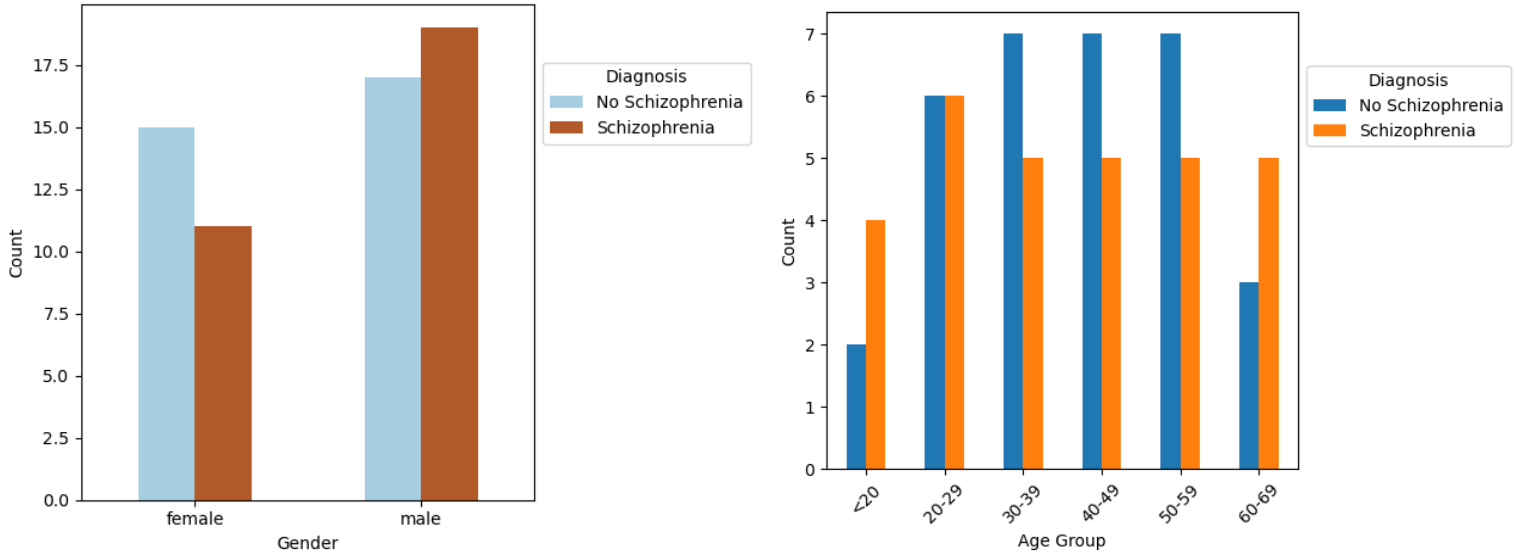


Figure 1: Gender distribution of schizophrenic and non-schizophrenic patients

Figure 2: Age distribution of schizophrenic and non-schizophrenic patients

## Section 2: Confusion Matrices and ROC Curves for Preprocessing Experiments

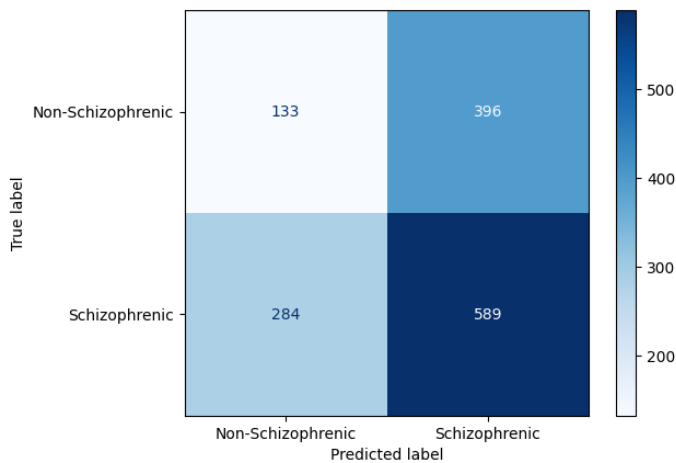


Figure 3: Confusion matrix from first experiment-model training on raw images

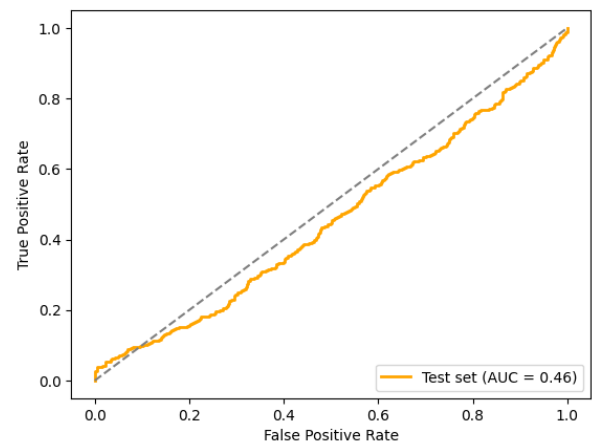


Figure 4: ROC Curve from first experiment: model training on raw images

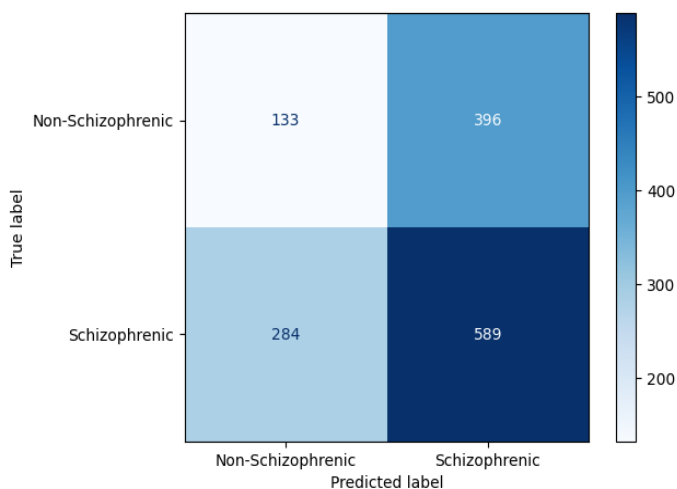


Figure 5: Confusion matrix from second experiment- resampling images

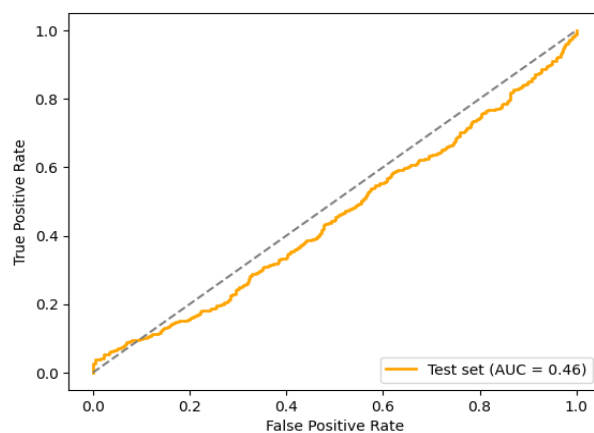


Figure 6: ROC Curve from second experiment- model training on raw images

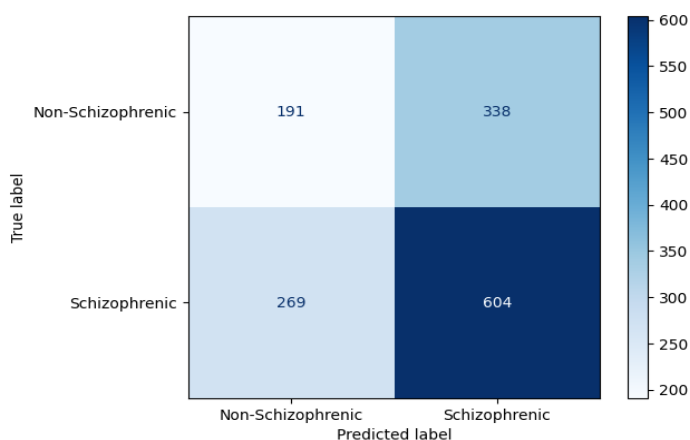


Figure 7: Confusion matrix from third experiment- normalizing images

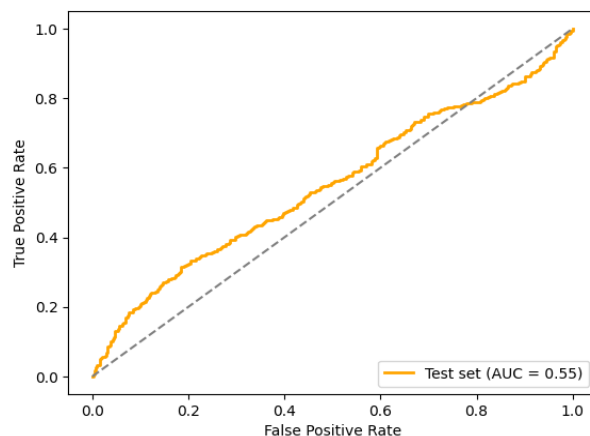


Figure 8: ROC Curve from third experiment- normalizing images

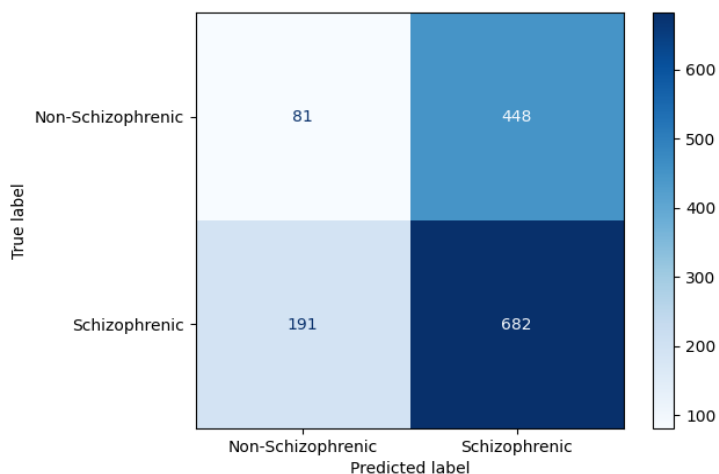


Figure 9: Confusion matrix from forth experiment- brain extraction

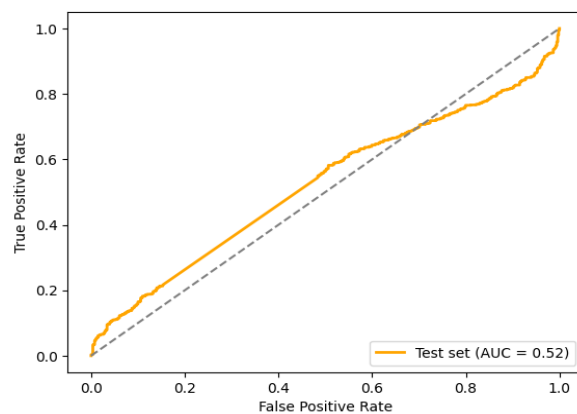


Figure 10: ROC Curve from forth experiment- brain extraction

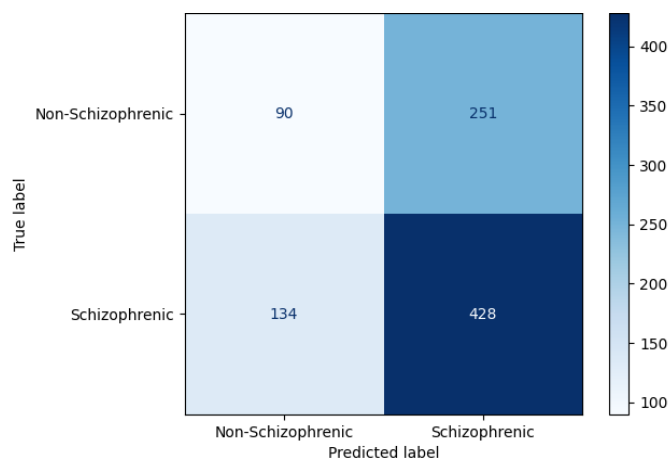


Figure 11: Confusion matrix from fifth experiment-cropping

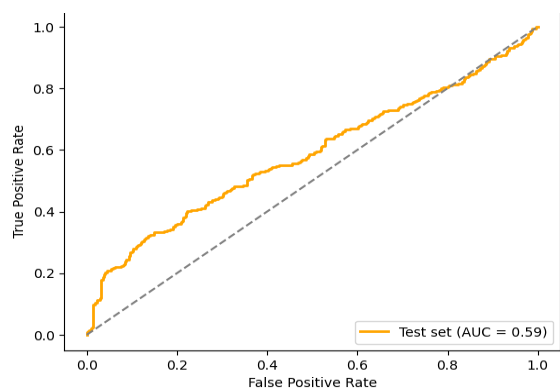


Figure 12: ROC Curve from fifth experiment-cropping

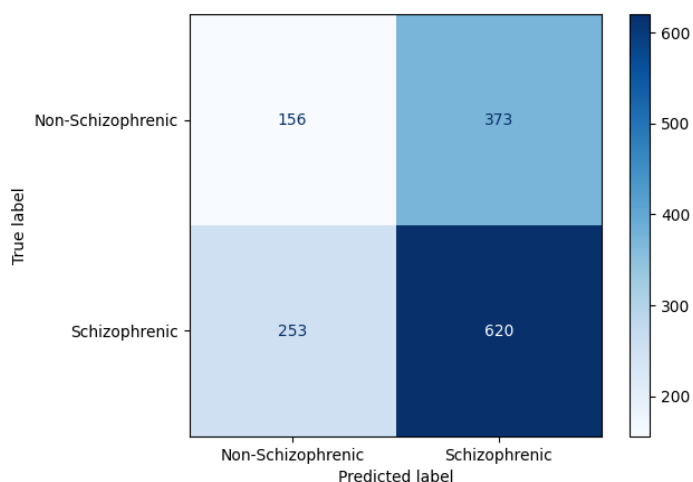


Figure 13: Confusion matrix from sixth experiment-smoothing

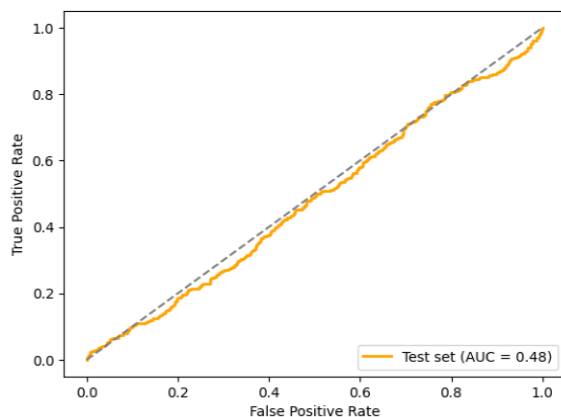


Figure 14: ROC Curve from sixth experiment-smoothing

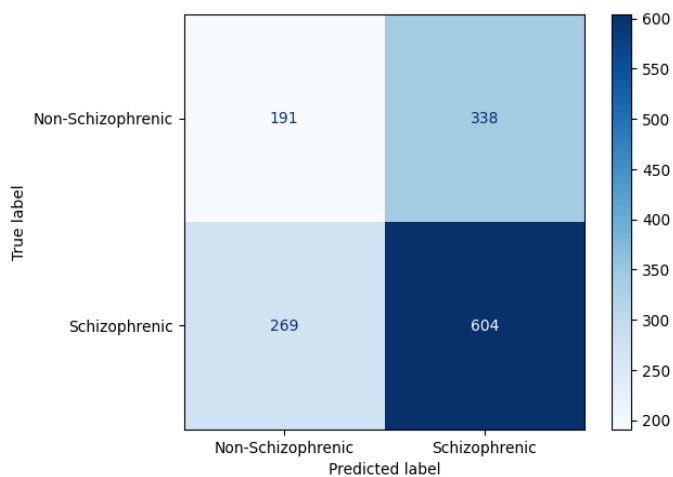


Figure 15: Confusion matrix from seventh experiment-resampling + normalization

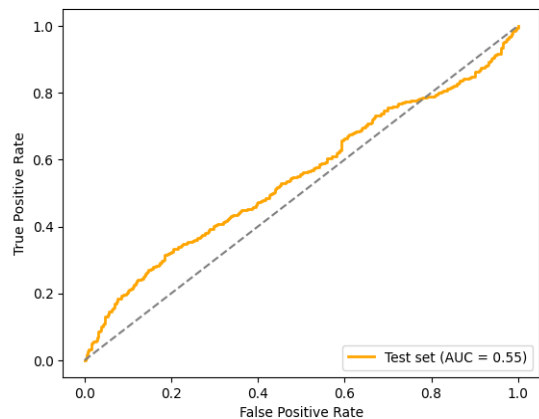


Figure 16: ROC Curve from seventh experiment-resampling + normalization

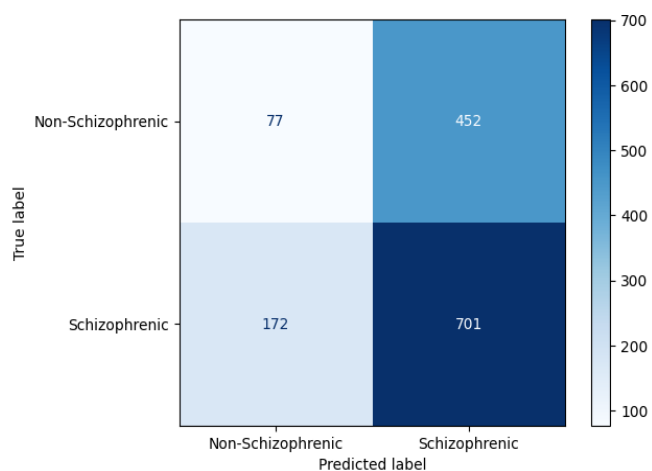


Figure 17: Confusion matrix from eighth experiment-  
resampling + normalization + brain extraction

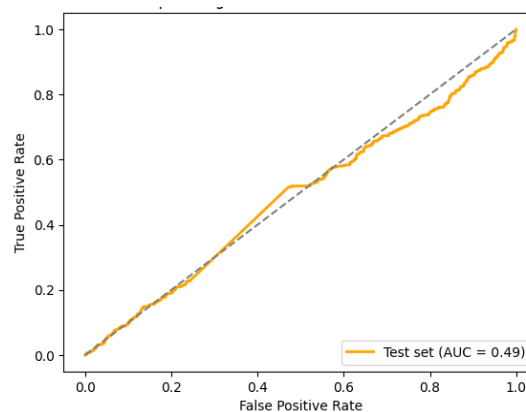


Figure 18: ROC Curve from eighth experiment-  
resampling + normalization + brain extraction

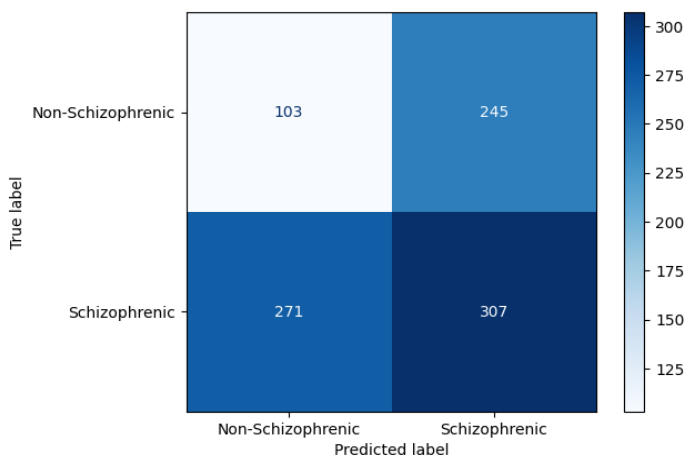


Figure 19: Confusion matrix from ninth experiment-  
resampling + normalization + brain extraction + cropping

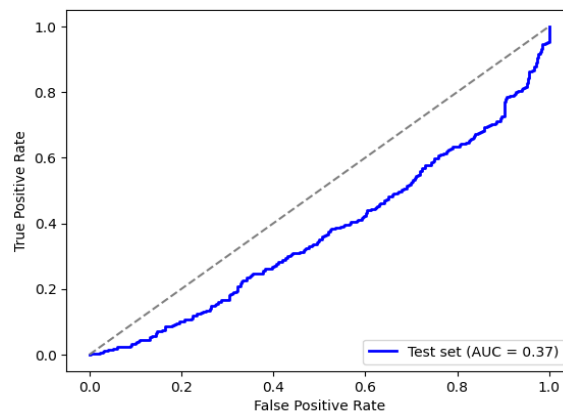


Figure 20: ROC Curve from ninth experiment- resampling +  
normalization + brain extraction + cropping

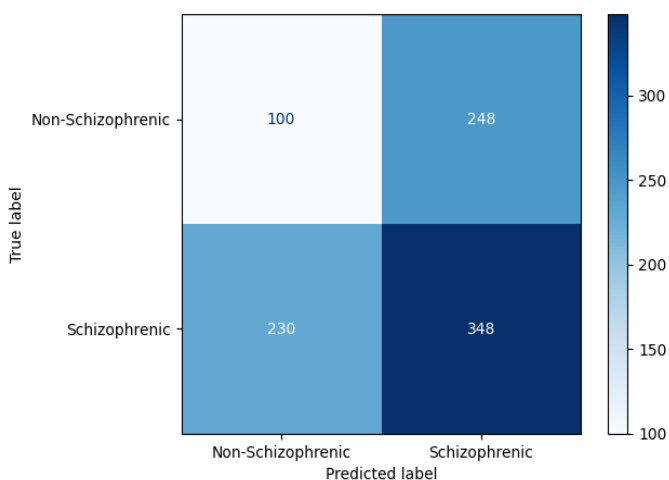


Figure 21: Confusion matrix from tenth experiment-  
resampling + normalization + brain extraction +  
cropping + smoothing

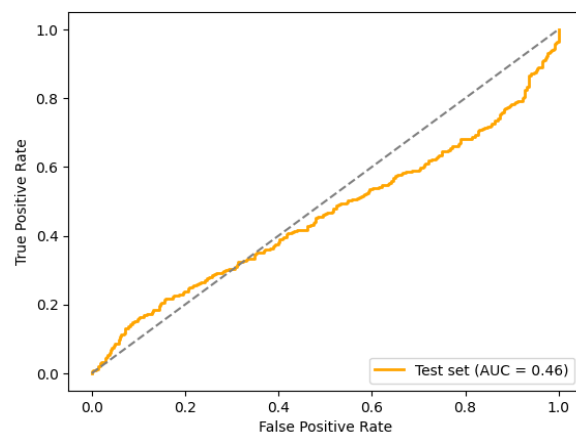


Figure 22: Confusion matrix from tenth experiment-  
resampling + normalization + brain extraction + cropping +  
smoothing

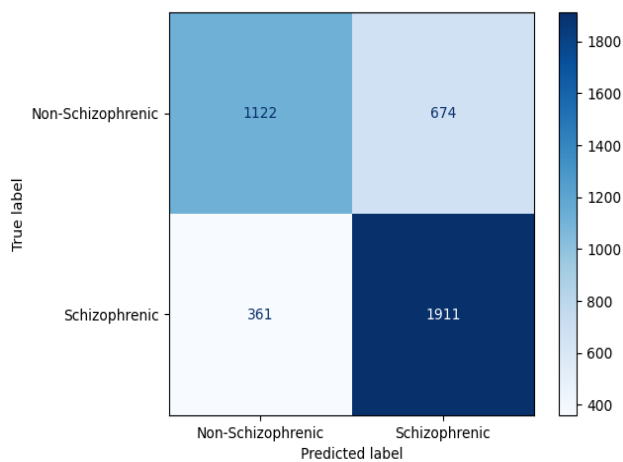


Figure 23: Confusion matrix from eleventh experiment-translation

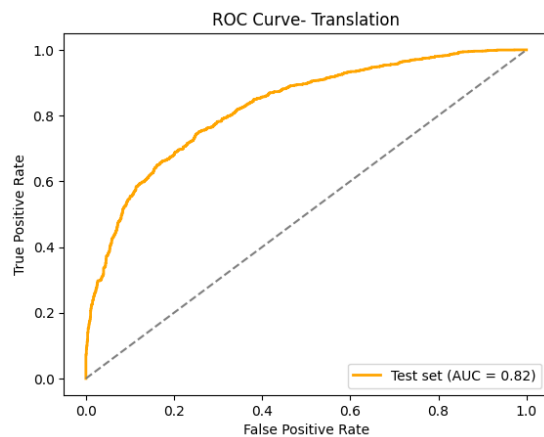


Figure 24: ROC Curve from eleventh experiment-translation

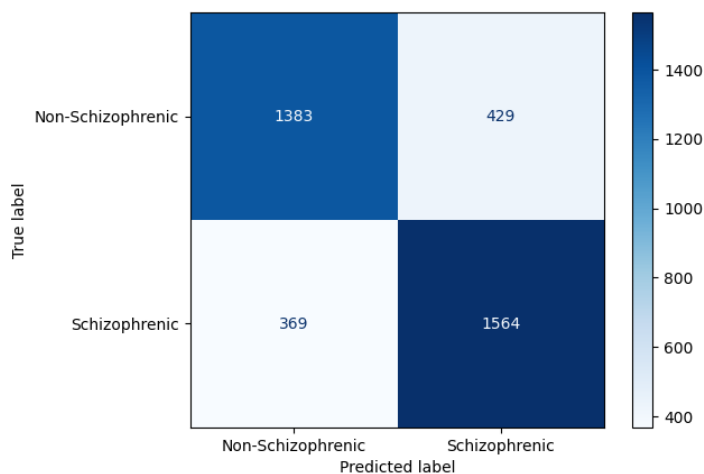


Figure 25: Confusion matrix from twelfth experiment-Rotation

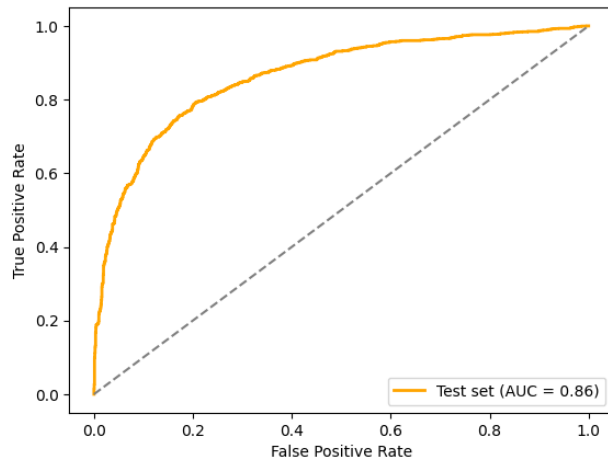


Figure 26: Confusion matrix from twelfth experiment-Rotation

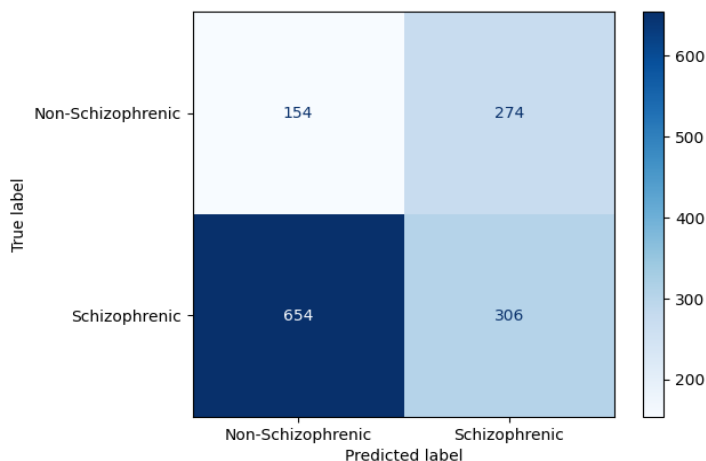


Figure 27: Confusion matrix from thirteenth experiment-Gaussian noise

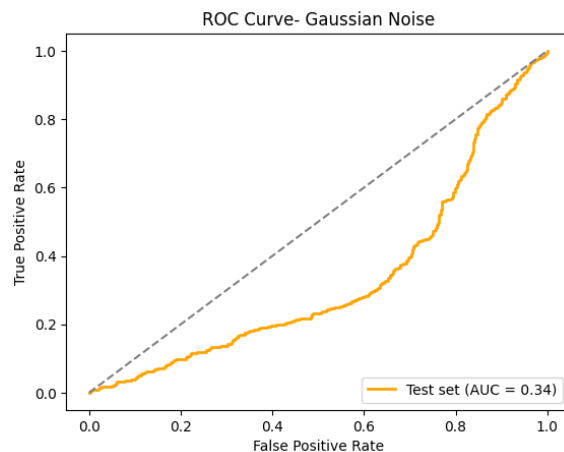


Figure 28: Confusion matrix from thirteenth experiment-Gaussian noise