

Train Dataloader - 48
Test Dataloader - 173

Device Used - cuda

Model Used - Base_3DCAE_2
Feature Extraction - True
Background Subtraction - True
Background Subtraction Algorithm - GMG
Data Augmentation - False
Spatial Temporal Loss - True
w1 - 1, w2 - 1e-05

Window Length = 8
Stride = 1
Fair Comparison = True
Dropout = 0.25
Learning Rate = 0.0002
Num Epochs = 20
Chunk Size = 64
Forward Chunk = 8
Forward Chunk Size = 8
Loss Fn = L1Loss()

Training has Begun

epoch [1/20], loss:0.6054
epoch [2/20], loss:0.6044
epoch [3/20], loss:0.6032
epoch [4/20], loss:0.6029
epoch [5/20], loss:0.6028
epoch [6/20], loss:0.6026
epoch [7/20], loss:0.6025
epoch [8/20], loss:0.6023
epoch [9/20], loss:0.6022
epoch [10/20], loss:0.6021
epoch [11/20], loss:0.6020
epoch [12/20], loss:0.6020
epoch [13/20], loss:0.6019
epoch [14/20], loss:0.6020
epoch [15/20], loss:0.6020
epoch [16/20], loss:0.6019
epoch [17/20], loss:0.6019
epoch [18/20], loss:0.6019
epoch [19/20], loss:0.6018

```
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\npyio.py:528: VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths or shapes) is deprecated. If you meant to do this, you must specify 'dtype=object' when creating the ndarray.  
arr = np.asarray(arr)
```

epoch [20/20], loss:0.6018
Training has Completed

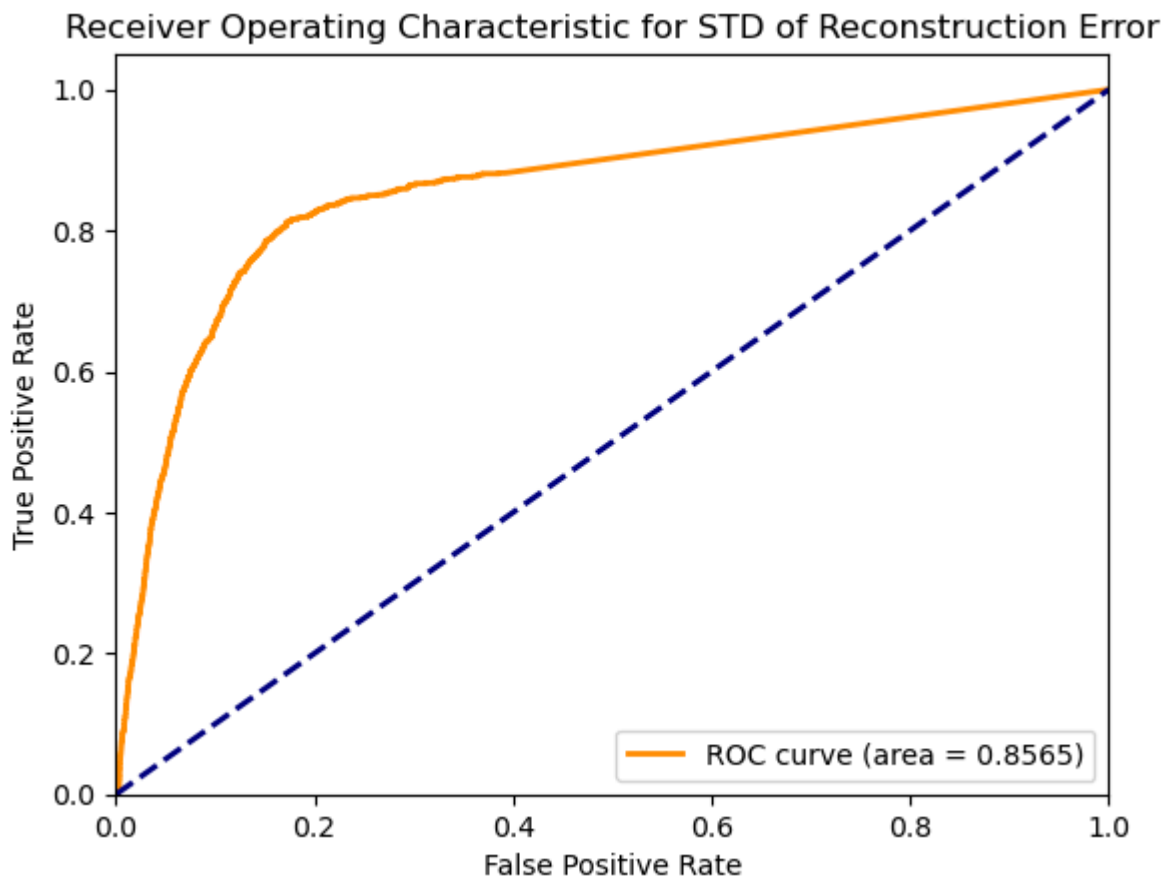
Forward pass occurring
Forward pass completed

Thermal_T3_2024-03-20-17-50-57

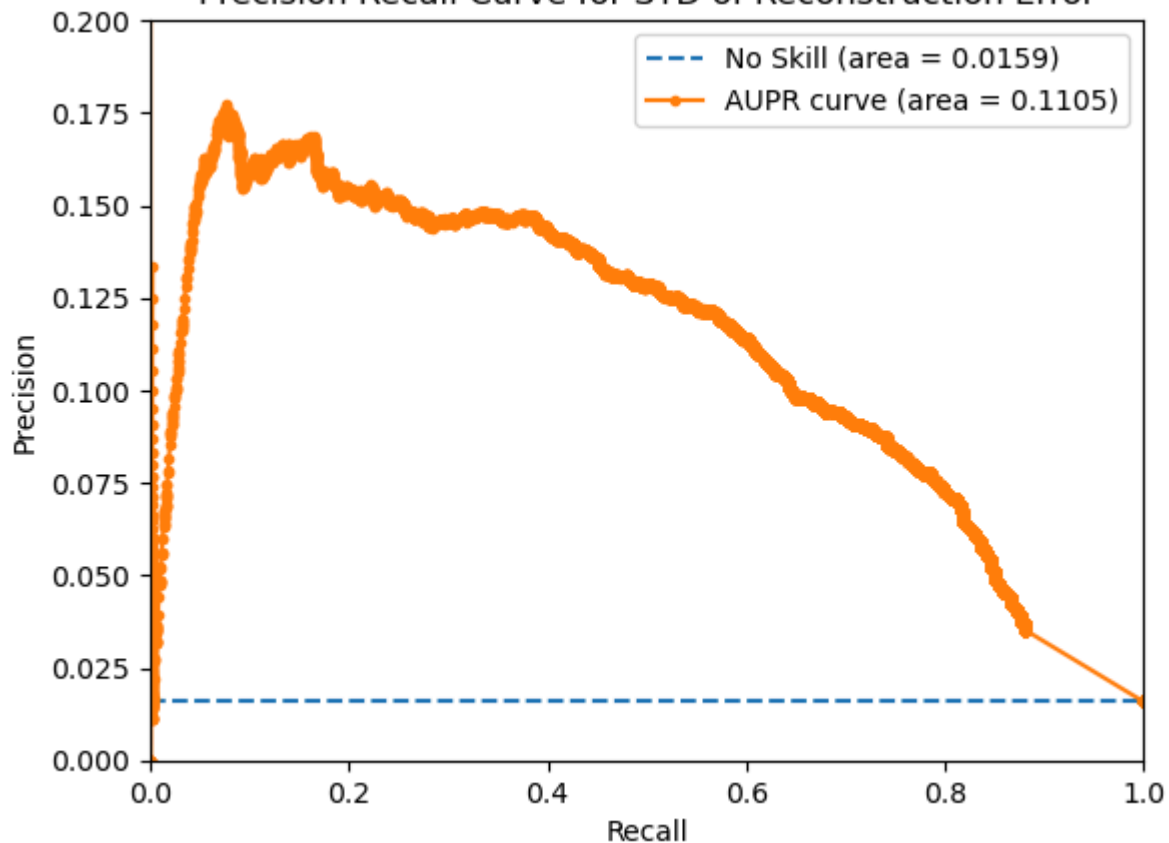
STD Global Classification Results
TPR 0.812, FPR 0.172, Precision 0.071, Recall 0.812
tn 54955, fp 11434, fn 201, tp 871
std_AUROC 0.856

Mean Global Classification Results
TPR 0.816, FPR 0.214, Precision 0.058, Recall 0.816
tn 52166, fp 14223, fn 197, tp 875
mean_AUROC 0.841

```
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\functions.py:250: RuntimeWarning: Mean of empty slice
  final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a
cross all videos
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```



Precision Recall Curve for STD of Reconstruction Error



Receiver Operating Characteristic for Mean of Reconstruction Error

