```
Train Dataloader - 48
Test Dataloader - 173

Device Used - cuda

Model Used - Base_3DCAE
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 = MSELoss()

Training has Begun
epoch [1/20], loss:0.0007
epoch [2/20], loss:0.0004
epoch [3/20], loss:0.0003
epoch [4/20], loss:0.0002
epoch [5/20], loss:0.0002
epoch [6/20], loss:0.0002
epoch [7/20], loss:0.0002
epoch [8/20], loss:0.0002
epoch [9/20], loss:0.0001
epoch [10/20], loss:0.0001
epoch [11/20], loss:0.0001
epoch [12/20], loss:0.0001
epoch [13/20], loss:0.0001
epoch [14/20], loss:0.0001
epoch [15/20], loss:0.0001
epoch [16/20], loss:0.0001
epoch [17/20], loss:0.0001
epoch [18/20], loss:0.0001
epoch [19/20], loss:0.0001
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\npyio.py:528: V
isibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which is a lis
t-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.asanyarray(arr)
```

```
epoch [20/20], loss:0.0001
Training has Completed

Forward pass occuring
Forward pass completed

Thermal_T32024-02-24-13-48-34

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STD Global Classification Results
TPR 0.907, FPR 0.378, Precision 0.037, Recall 0.907
tn 41283, fp 25106, fn 100, tp 972
std_AUROC  0.799
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Mean Global Classification Results
TPR 0.923, FPR 0.444, Precision 0.032, Recall 0.923
tn 36897, fp 29492, fn 83, tp 989
mean_AUROC 0.799
---------------------------------
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Base Paper\Implementation\FallDetection
\Code\functions.py:224: RuntimeWarning: Mean of empty slice
  final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance ac
ross all videos
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```
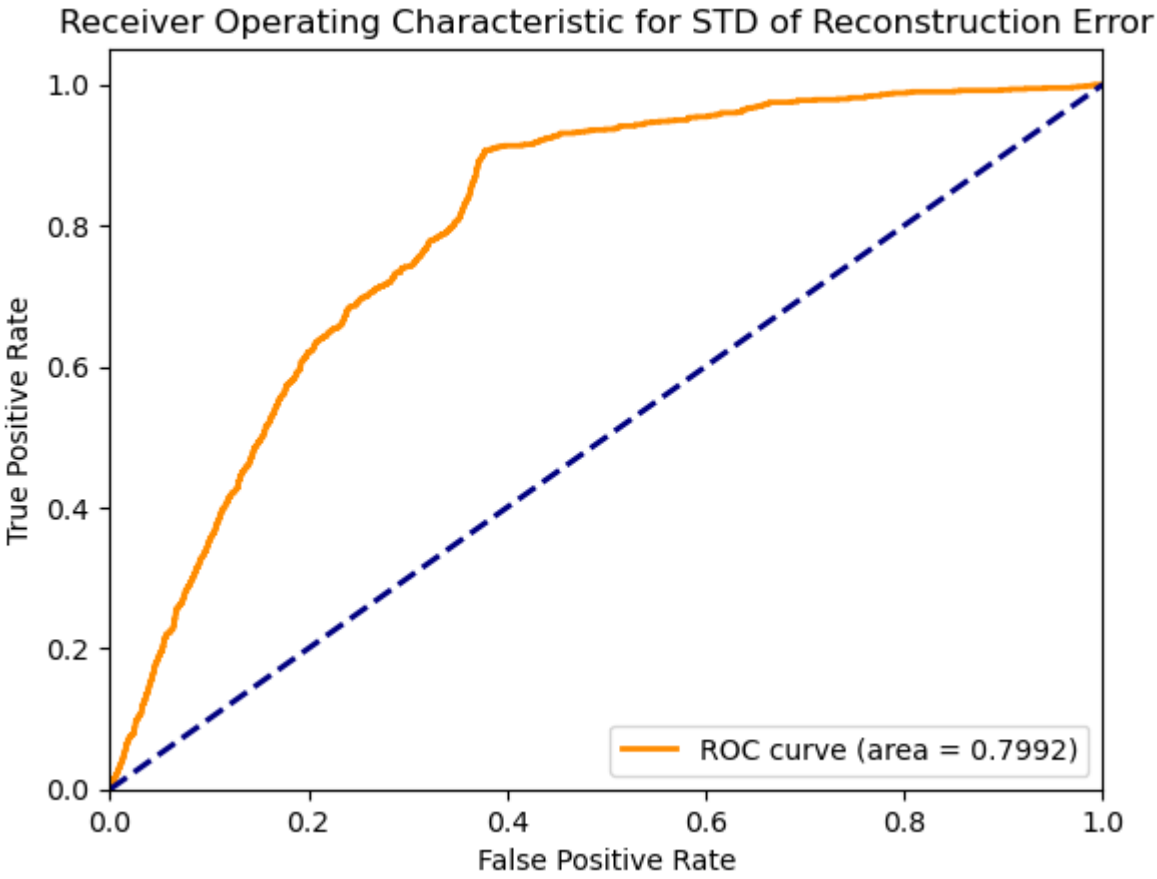
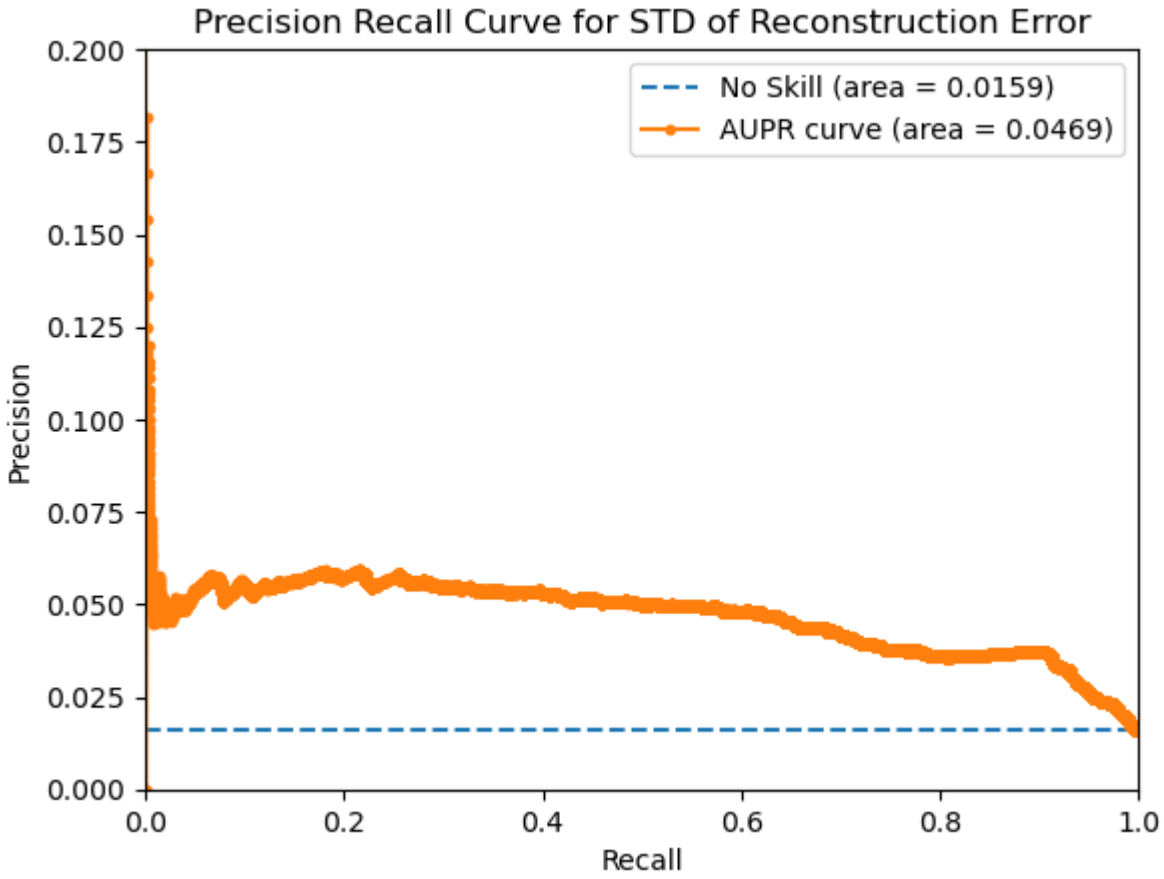
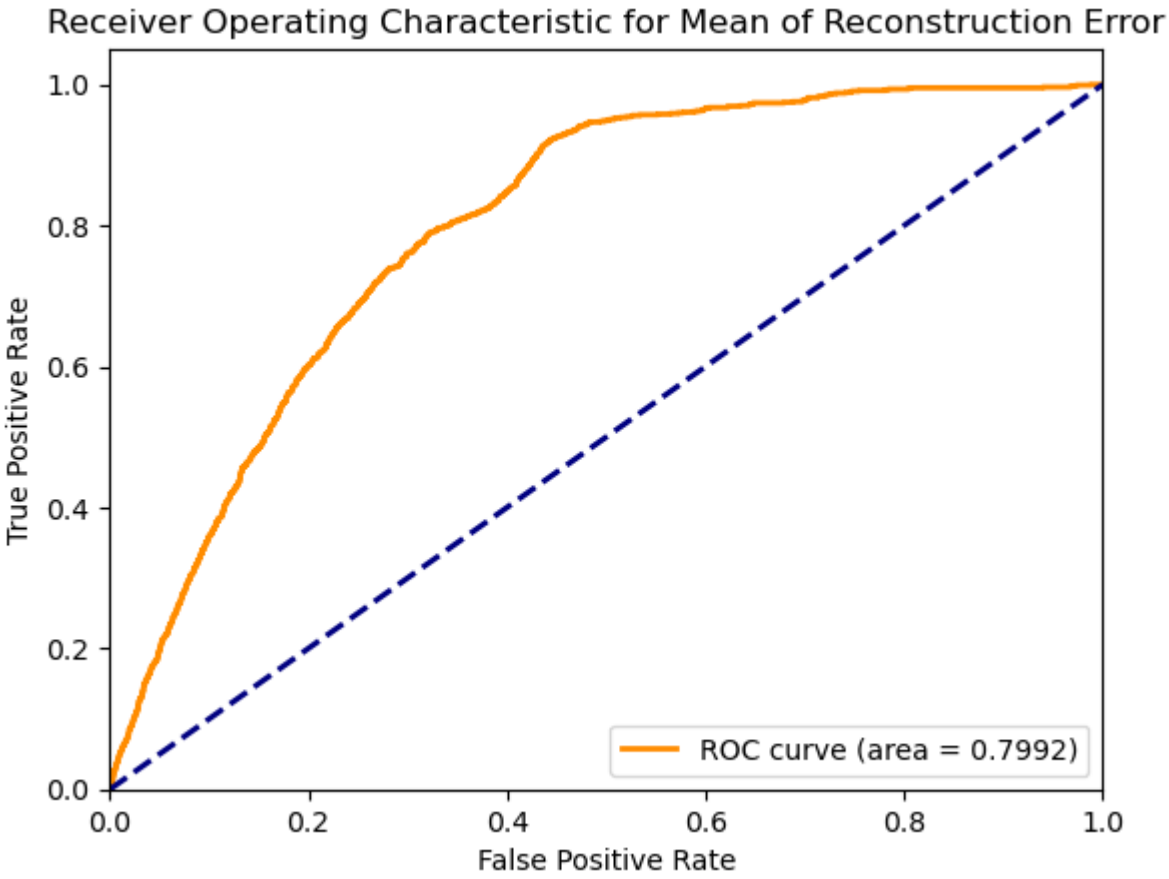
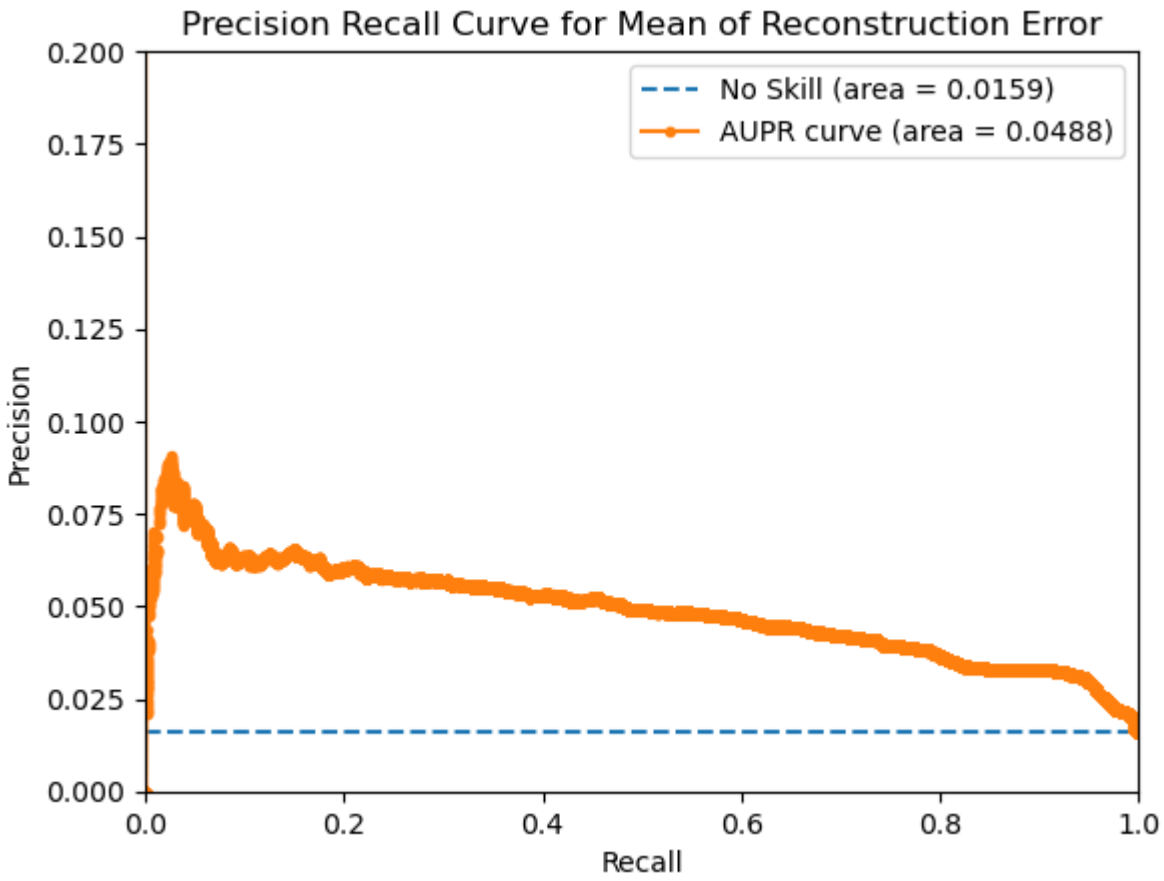




Precision Recall Curve for STD of Reconstruction Error
No Skill (area = 0.0159)
AUPR curve (area = 0.0469)
Precision
Recall
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.0
0.2
0.4
0.6
0.8
1.0


Receiver Operating Characteristic for Mean of Reconstruction Error
ROC curve (area = 0.7992)
True Positive Rate
False Positive Rate
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0


Precision Recall Curve for Mean of Reconstruction Error
No Skill (area = 0.0159)
AUPR curve (area = 0.0488)
Precision
Recall
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
0.0
0.2
0.4
0.6
0.8
1.0