```
Train Dataloader - 58
Test Dataloader - 180

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:0.0008
epoch [2/20], loss:0.0005
epoch [3/20], loss:0.0004
epoch [4/20], loss:0.0004
epoch [5/20], loss:0.0004
epoch [6/20], loss:0.0004
epoch [7/20], loss:0.0004
epoch [8/20], loss:0.0003
epoch [9/20], loss:0.0004
epoch [10/20], loss:0.0003
epoch [11/20], loss:0.0003
epoch [12/20], loss:0.0003
epoch [13/20], loss:0.0003
epoch [14/20], loss:0.0003
epoch [15/20], loss:0.0003
epoch [16/20], loss:0.0003
epoch [17/20], loss:0.0003
epoch [18/20], loss:0.0003
epoch [19/20], loss:0.0003
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.asanyarray(arr)
```

```
epoch [20/20], loss:0.0003
Training has Completed

Forward pass occuring
Forward pass completed

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STD Global Classification Results
TPR 0.895, FPR 0.375, Precision 0.023, Recall 0.895
tn 296184, fp 177357, fn 490, tp 4155
std_AUROC  0.844
---------------------------------
---------------------------------
Mean Global Classification Results
TPR 0.835, FPR 0.228, Precision 0.035, Recall 0.835
tn 365729, fp 107812, fn 765, tp 3880
mean_AUROC 0.882
---------------------------------
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should
be meaningless
  warnings.warn(
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:979: UserWarning: No positive class found in y_true, recall is set to one for all thres
holds.
  warnings.warn(
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should
be meaningless
  warnings.warn(
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:979: UserWarning: No positive class found in y_true, recall is set to one for all thres
holds.
  warnings.warn(
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,
```
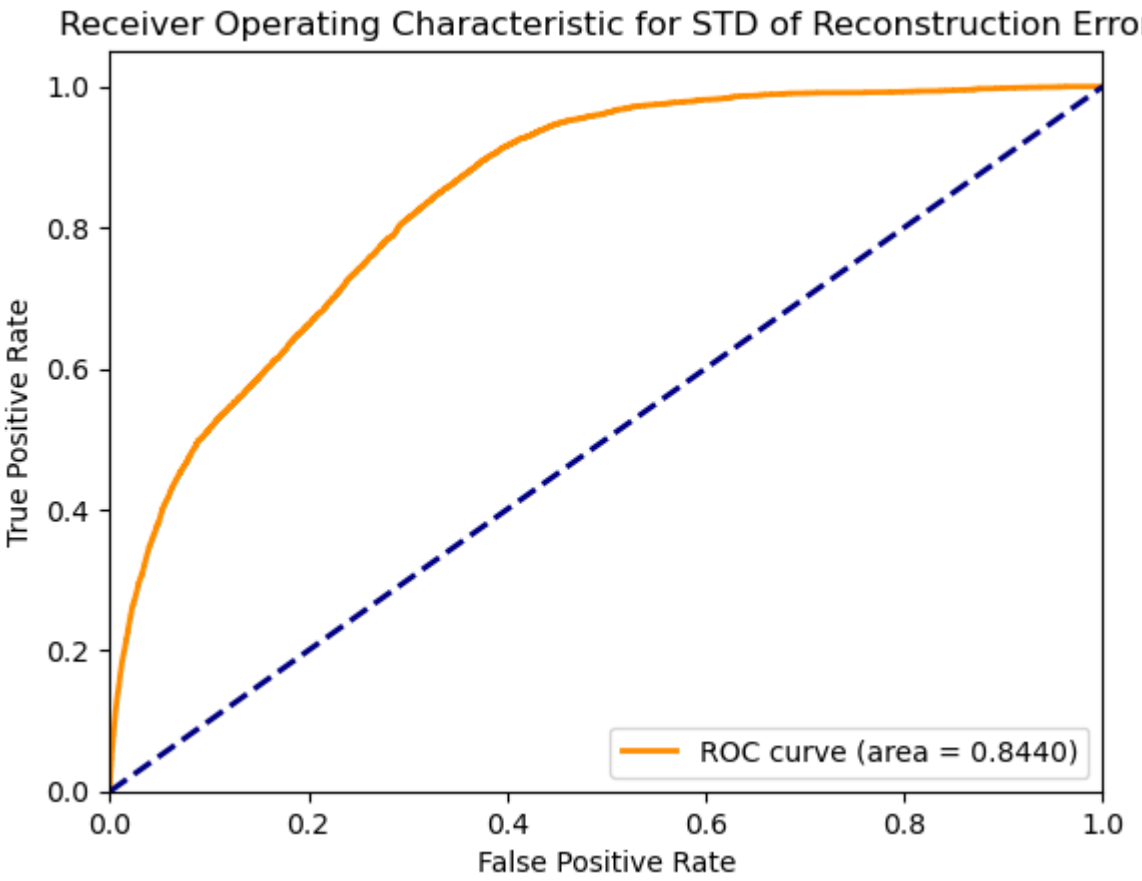
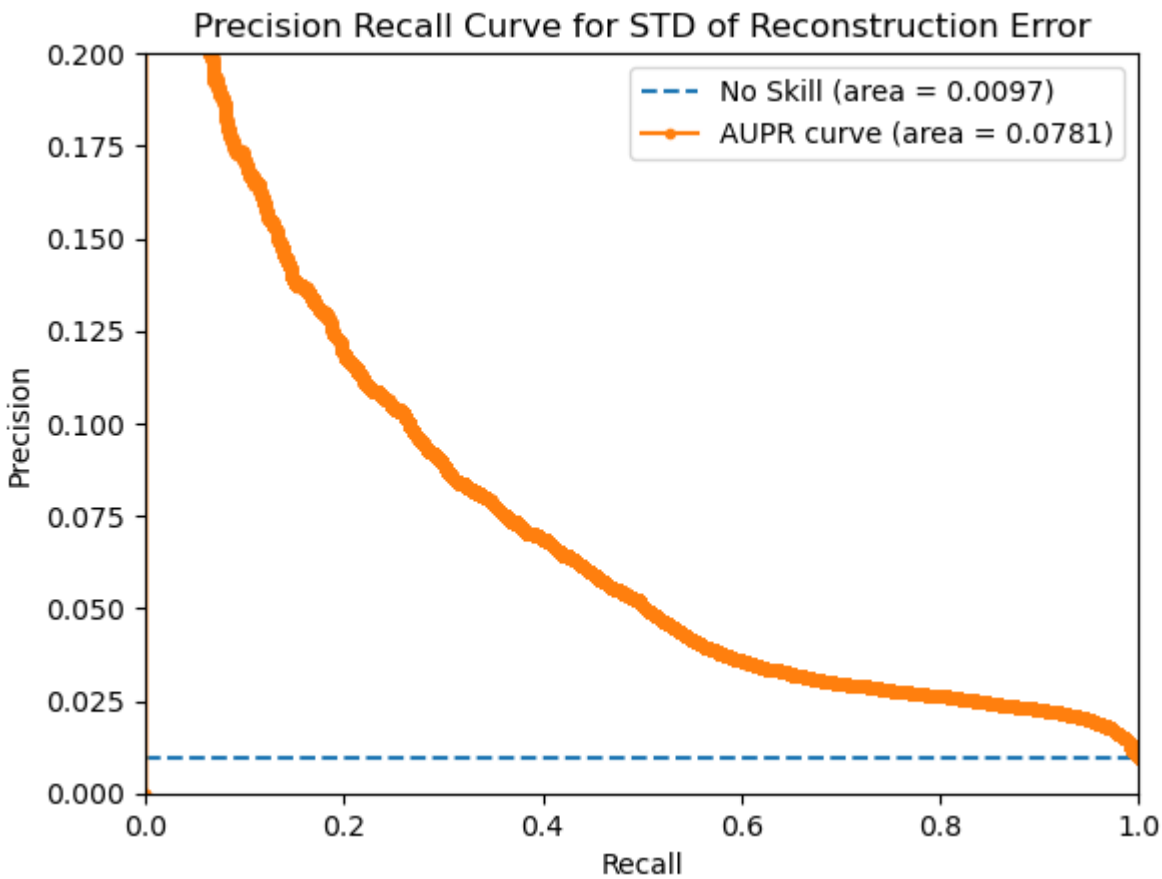
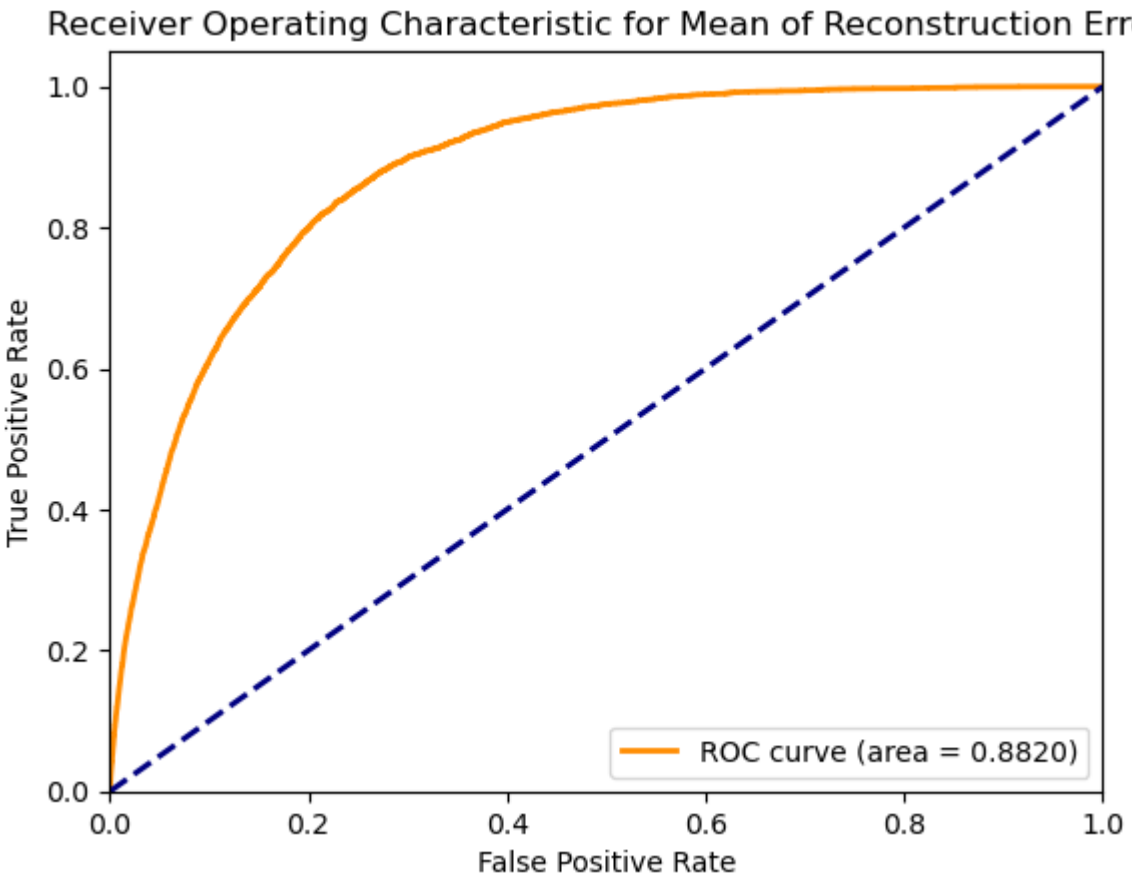
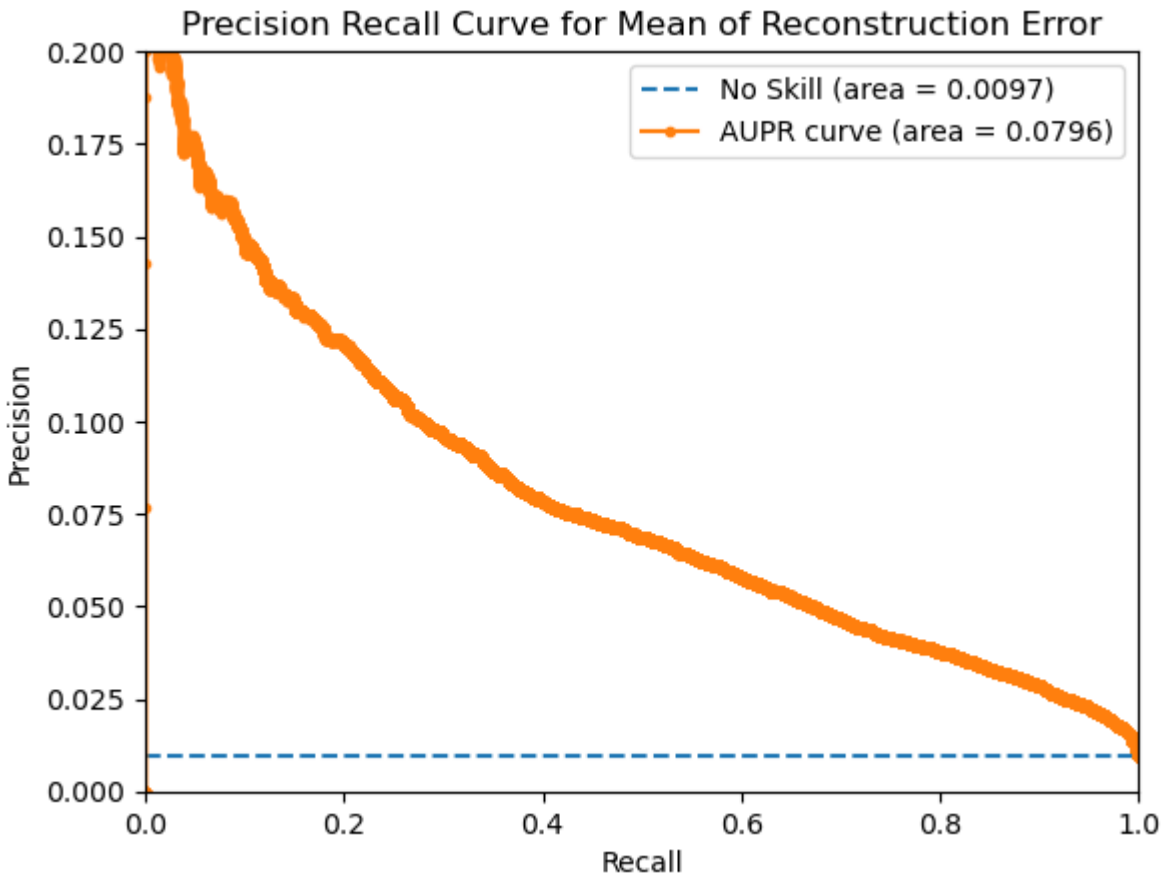


Receiver Operating Characteristic for STD of Reconstruction Error
True Positive Rate
False Positive Rate
ROC curve (area = 0.8440)
0.0
0.2
0.4
0.6
0.8
1.0


Precision Recall Curve for STD of Reconstruction Error
Precision
Recall
No Skill (area = 0.0097)
AUPR curve (area = 0.0781)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
0.0
0.2
0.4
0.6
0.8
1.0


Receiver Operating Characteristic for Mean of Reconstruction Error
True Positive Rate
False Positive Rate
ROC curve (area = 0.8820)
0.0
0.2
0.4
0.6
0.8
1.0


Precision Recall Curve for Mean of Reconstruction Error
Precision
Recall
No Skill (area = 0.0097)
AUPR curve (area = 0.0796)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
0.0
0.2
0.4
0.6
0.8
1.0