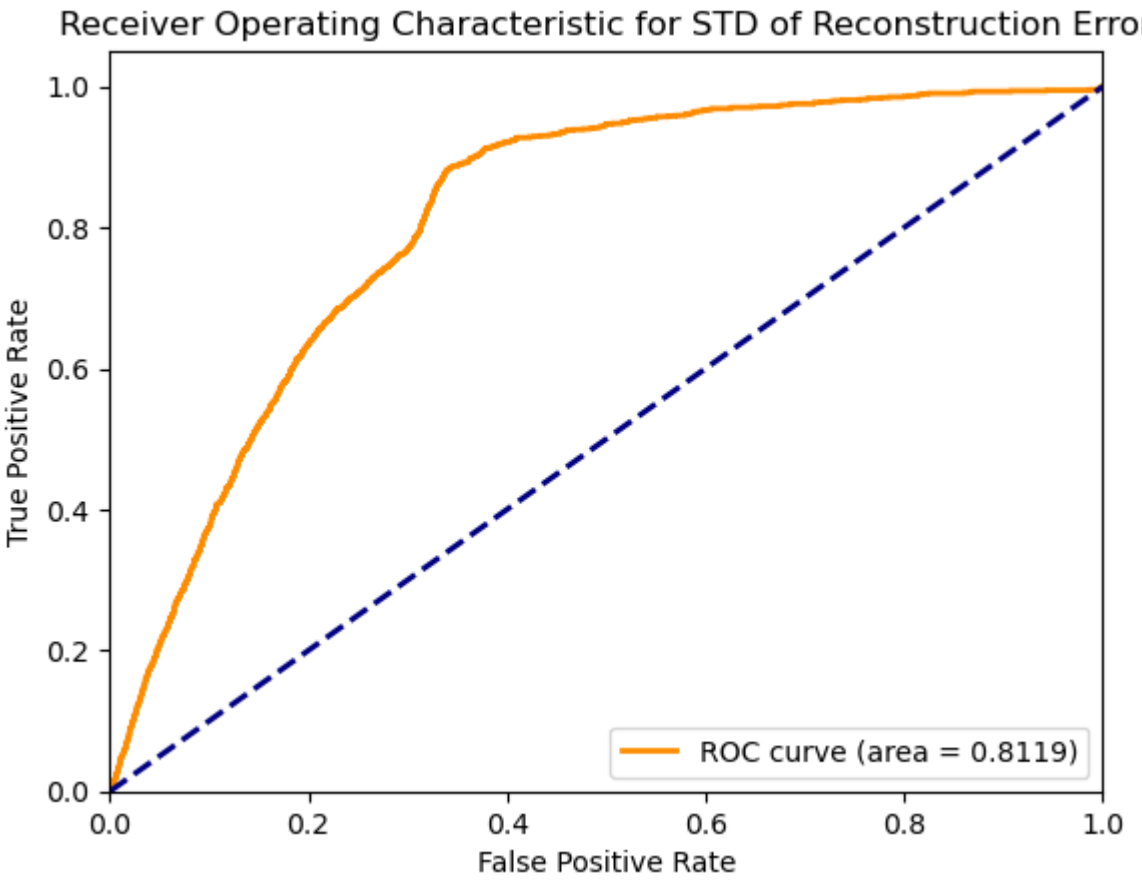
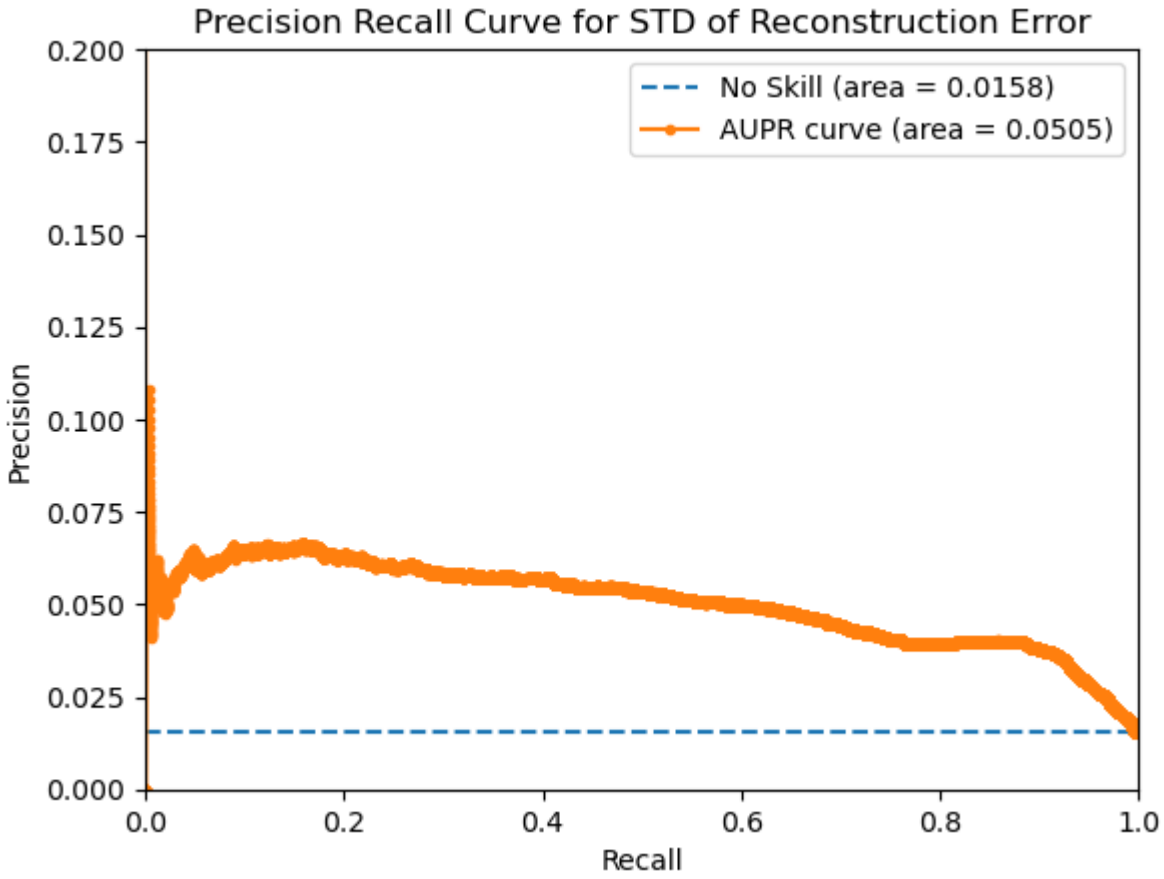
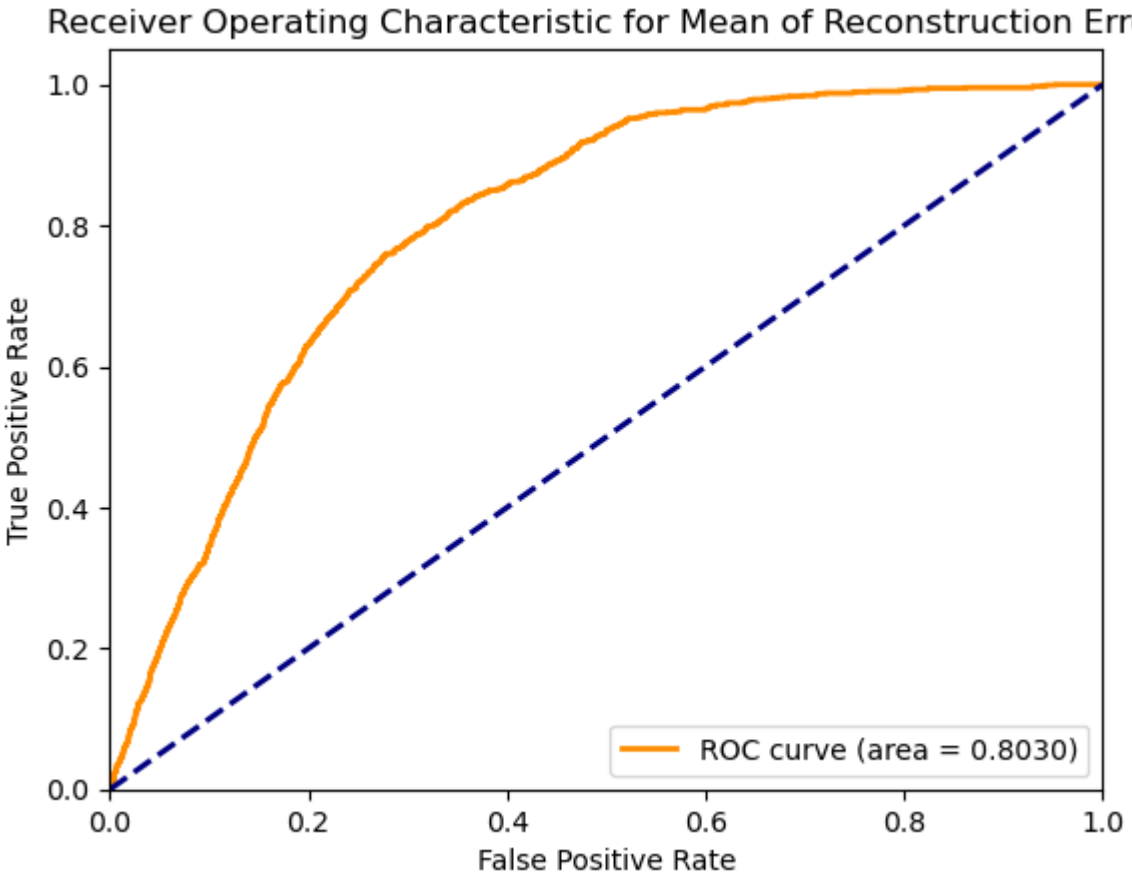
```
Skipped Fall102
Skipped Fall106
Skipped Fall108
Skipped Fall110
Skipped Fall129
Skipped Fall131
Skipped Fall150
Skipped Fall151
Skipped Fall152
Skipped Fall153
Skipped Fall156
Skipped Fall157
Skipped Fall158
Skipped Fall159
Skipped Fall167
Skipped Fall170
Skipped Fall171
Skipped Fall182
Skipped Fall187
Skipped Fall188
Skipped Fall20
Skipped Fall211
Skipped Fall213
Skipped Fall214
Skipped Fall23
Skipped Fall230
Skipped Fall231
Skipped Fall232
Skipped Fall233
Skipped Fall234
Skipped Fall235
Skipped Fall236
Skipped Fall237
Skipped Fall238
Skipped Fall239
Skipped Fall25
Skipped Fall26
Skipped Fall264
Skipped Fall267
Skipped Fall28
Skipped Fall29
Skipped Fall290
Skipped Fall291
Skipped Fall292
Skipped Fall293
Skipped Fall294
Skipped Fall295
Skipped Fall296
Skipped Fall297
Skipped Fall298
Skipped Fall299
Skipped Fall34
Skipped Fall37
Skipped Fall40
Skipped Fall41
Skipped Fall42
Skipped Fall43
Skipped Fall44
Skipped Fall45
```

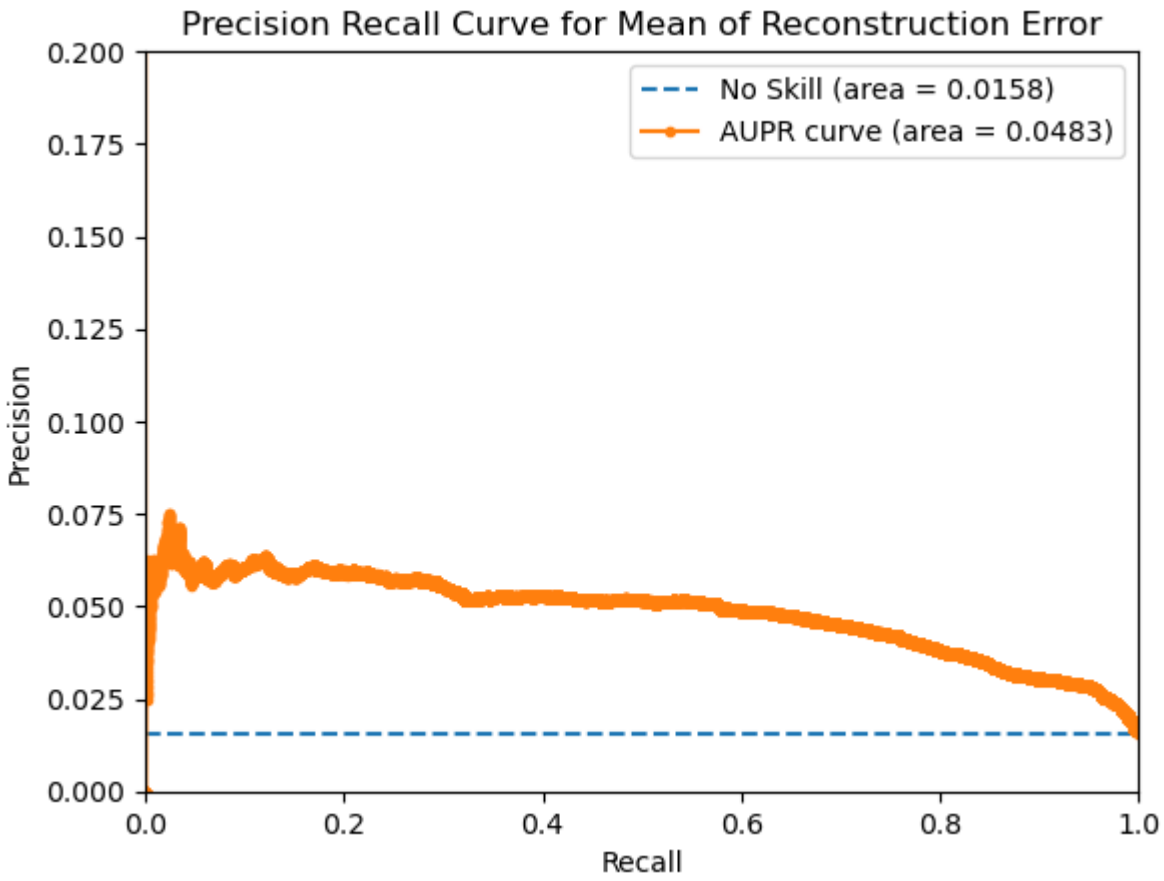
```
Skipped Fall46
Skipped Fall47
Skipped Fall48
Skipped Fall49
Skipped Fall61
Skipped Fall67
Skipped Fall72
Skipped Fall74
Skipped Fall87
Skipped Fall91
Skipped Fall95
Skipped Fall98
Train Dataloader - 90
Test Dataloader - 187

Device Used - cuda

Model Used - Base_3DCAE
Window Length = 8
Stride = 1
Fair Comparison = False
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:0.0012
epoch [2/20], loss:0.0007
epoch [3/20], loss:0.0005
epoch [4/20], loss:0.0005
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:0.0003
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:0.0002
epoch [18/20], loss:0.0002
epoch [19/20], loss:0.0002
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:0.0002
Training has Completed

Forward pass occuring
Forward pass completed

Thermal_T3_2024-02-26-20-05-58

---------------------------------
STD Global Classification Results
TPR 0.885, FPR 0.342, Precision 0.040, Recall 0.885
tn 47002, fp 24432, fn 132, tp 1014
std_AUROC  0.812
---------------------------------
---------------------------------
Mean Global Classification Results
TPR 0.760, FPR 0.278, Precision 0.042, Recall 0.760
tn 51585, fp 19849, fn 275, tp 871
mean_AUROC 0.803
---------------------------------
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:265: RuntimeWarning: Mean of empty slice
  final_performance_mean = np.nanmean(
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 = 0.0158)
AUPR curve (area = 0.0505)
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 = 0.8030)
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 = 0.0158)
AUPR curve (area = 0.0483)
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