```
Modality 1 - Thermal
Non Falls - 48, Falls - 173

Modality 2 - IP
Non Falls - 48, Falls - 173

Train Dataloader - 48
Test Dataloader - 173

Device Used - cuda

Model Used - EarlyAddition_3DCAE
Key Frame Extraction - False
Feature Extraction - True
Background Subtraction - True
Background Subtraction Algorithm - GMG
Data Augmentation - False
Spatial Temporal Loss - False

Frame rate adjusted dataset - True
Synchronise Video - True
Video length adjustment method - Not Applicable

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

Training has Begun
epoch [1/20], loss:0.0006
epoch [2/20], loss:0.0003
epoch [3/20], loss:0.0002
epoch [4/20], loss:0.0002
epoch [5/20], loss:0.0002
epoch [6/20], loss:0.0001
epoch [7/20], loss:0.0001
epoch [8/20], loss:0.0001
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:0.0000
epoch [16/20], loss:0.0001
epoch [17/20], loss:0.0001
epoch [18/20], loss:0.0001
epoch [19/20], loss:0.0001
epoch [20/20], loss:0.0003
Training has Completed
```
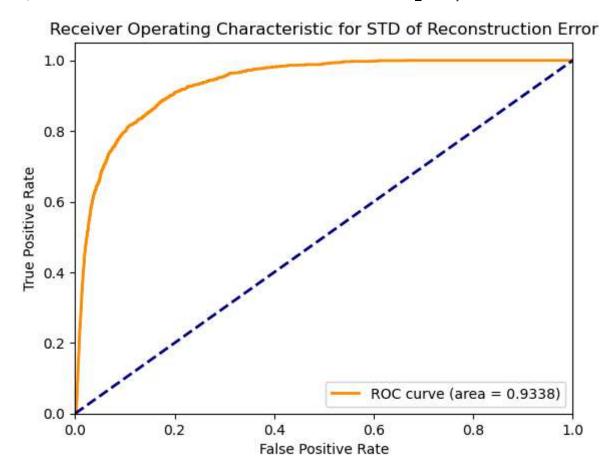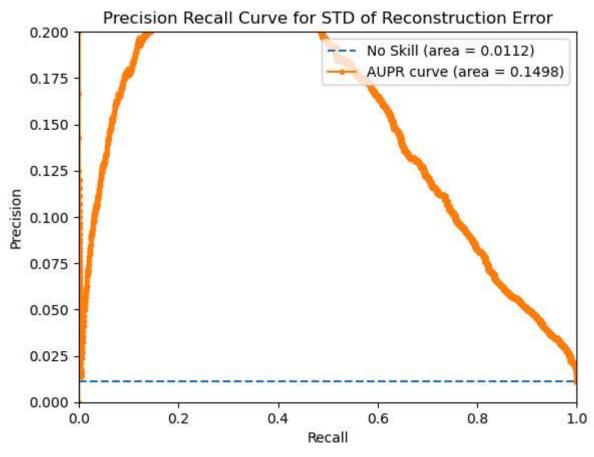
```
Forward pass occuring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-27-17-18-37

----------------------------------
STD Global Classification Results
TPR 0.886, FPR 0.174, Precision 0.055, Recall 0.886
tn 105227, fp 22242, fn 165, tp 1283
std_AUROC  0.934
----------------------------------
----------------------------------
Mean Global Classification Results
TPR 0.891, FPR 0.205, Precision 0.047, Recall 0.891
tn 101364, fp 26105, fn 158, tp 1290
mean_AUROC 0.913
----------------------------------

c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metr
ics\_ranking.py:1132: UndefinedMetricWarning: No positive samples in y_true,
true positive value should be meaningless
  warnings.warn(
c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metr
ics\_ranking.py:979: UserWarning: No positive class found in y_true, recall i
s set to one for all thresholds.
  warnings.warn(
c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metr
ics\_ranking.py:1132: UndefinedMetricWarning: No positive samples in y_true,
true positive value should be meaningless
  warnings.warn(
c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metr
ics\_ranking.py:979: UserWarning: No positive class found in y_true, recall i
s set to one for all thresholds.
  warnings.warn(
d:\FYP-Human-Fall-Detection\Code\functions.py:302: RuntimeWarning: Mean of em
pty slice
  final_performance_mean = np.nanmean(video_metrics, axis=0)  # get the mean
performance across all videos
c:\Users\sindh\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\na
nfunctions.py: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

Precision Recall Curve for STD of Reconstruction Error

Receiver Operating Characteristic for Mean of Reconstruction Error

Precision Recall Curve for Mean of Reconstruction Error