```
Modality 1 - Thermal
Non Falls - 48, Falls - 173
Modality 2 - ONI_IR
Non Falls - 48, Falls - 173
Train Dataloader - 48
Test Dataloader - 173
Device Used - cuda
Model Used - LateAddition_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 = SmoothL1Loss()
Training has Begun
epoch [1/20], loss:0.0001
epoch [2/20], loss:0.0000
epoch [3/20], loss:0.0000
epoch [4/20], loss:0.0000
epoch [5/20], loss:0.0000
epoch [6/20], loss:0.0000
epoch [7/20], loss:0.0000
epoch [8/20], loss:0.0000
epoch [9/20], loss:0.0000
epoch [10/20], loss:0.0000
epoch [11/20], loss:0.0000
epoch [12/20], loss:0.0000
epoch [13/20], loss:0.0000
epoch [14/20], loss:0.0000
epoch [15/20], loss:0.0000
epoch [16/20], loss:0.0000
epoch [17/20], loss:0.0000
epoch [18/20], loss:0.0000
epoch [19/20], loss:0.0000
epoch [20/20], loss:0.0000
Training has Completed
Forward pass occuring
```

Forward pass completed

```
MultiModal_Thermal_T3_ONI_IR_T_2024-04-26-21-15-24
STD Global Classification Results
TPR 0.898, FPR 0.182, Precision 0.063, Recall 0.898
tn 107268, fp 23854, fn 184, tp 1612
std_AUROC 0.926
-----
_____
Mean Global Classification Results
TPR 0.893, FPR 0.188, Precision 0.061, Recall 0.893
tn 106480, fp 24642, fn 192, tp 1604
mean AUROC 0.923
_____
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:302: 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.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
 var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
-----
STD Global Classification Results
TPR 0.893, FPR 0.172, Precision 0.066, Recall 0.893
tn 108523, fp 22599, fn 193, tp 1603
std_AUROC 0.917
______
_____
Mean Global Classification Results
TPR 0.932, FPR 0.216, Precision 0.056, Recall 0.932
tn 102785, fp 28337, fn 123, tp 1673
mean_AUROC 0.892
______
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:302: 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.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
______
STD Global Classification Results
TPR 0.878, FPR 0.155, Precision 0.072, Recall 0.878
tn 110854, fp 20268, fn 220, tp 1576
std AUROC 0.934
_____
-----
Mean Global Classification Results
TPR 0.894, FPR 0.186, Precision 0.062, Recall 0.894
tn 106675, fp 24447, fn 191, tp 1605
mean AUROC 0.924
_____
```

d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct ions.py:302: RuntimeWarning: Mean of empty slice final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a

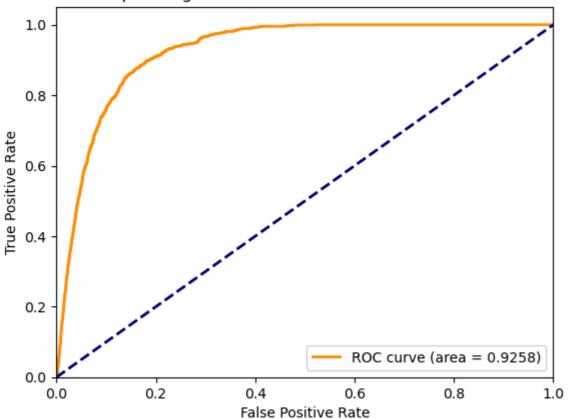
cross all videos

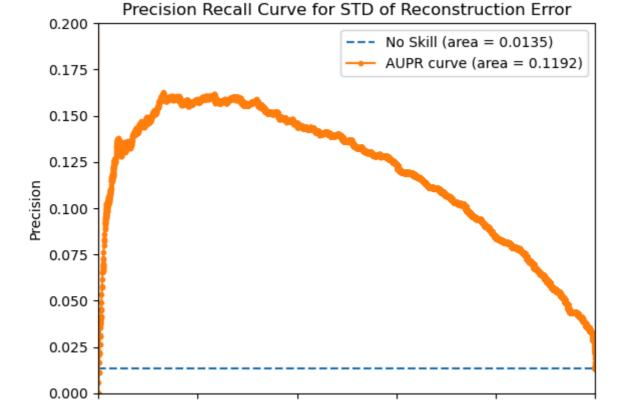
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.

var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,









0.4

0.6

Recall

0.8

1.0

0.2

0.0



