```
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 - LateSubtraction_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:0.0000
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_2024-04-22-00-30-27
STD Global Classification Results
TPR 0.894, FPR 0.218, Precision 0.053, Recall 0.894
tn 102597, fp 28525, fn 191, tp 1605
std_AUROC 0.913
-----
_____
Mean Global Classification Results
TPR 0.891, FPR 0.206, Precision 0.056, Recall 0.891
tn 104098, fp 27024, fn 195, tp 1601
mean AUROC 0.916
_____
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:250: 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 0.898, FPR 0.172, Precision 0.067, Recall 0.898
tn 108534, fp 22588, fn 184, tp 1612
std_AUROC 0.919
______
_____
Mean Global Classification Results
TPR 0.910, FPR 0.192, Precision 0.061, Recall 0.910
tn 105923, fp 25199, fn 161, tp 1635
mean_AUROC 0.902
______
```

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ions.py:250: 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,

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ions.py:250: RuntimeWarning: Mean of empty slice
 final performance mean = np napmean(video metrics axis=0) # get the mean performance a

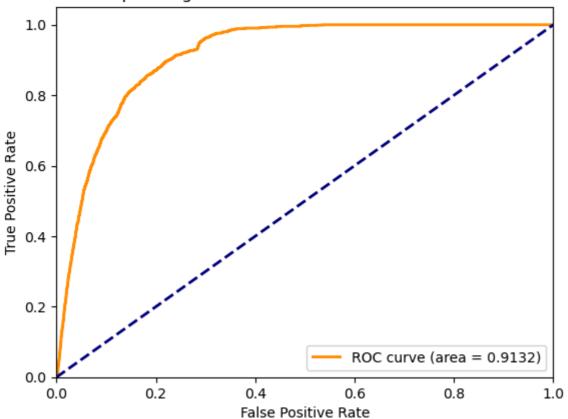
final\_performance\_mean = np.nanmean(video\_metrics, axis=0) # get the mean performance a
cross all videos

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.</pre>

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







## Precision Recall Curve for STD of Reconstruction Error

