```
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 - LateConcatenation_3DCAE
Key Frame Extraction - False
Feature Extraction - False
Data Augmentation - False
Spatial Temporal Loss - False
Frame rate adjusted dataset - True
Synchronise Video - False
Video length adjustment method - Pad Minimum
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 = MSELoss()
Training has Begun
epoch [1/20], loss:0.0026
epoch [2/20], loss:0.0019
epoch [3/20], loss:0.0017
epoch [4/20], loss:0.0016
epoch [5/20], loss:0.0015
epoch [6/20], loss:0.0015
epoch [7/20], loss:0.0014
epoch [8/20], loss:0.0013
epoch [9/20], loss:0.0013
epoch [10/20], loss:0.0012
epoch [11/20], loss:0.0012
epoch [12/20], loss:0.0012
epoch [13/20], loss:0.0011
epoch [14/20], loss:0.0011
epoch [15/20], loss:0.0011
epoch [16/20], loss:0.0011
epoch [17/20], loss:0.0011
epoch [18/20], loss:0.0011
epoch [19/20], loss:0.0011
epoch [20/20], loss:0.0011
Training has Completed
Forward pass occuring
Forward pass completed
```

MultiModal_Thermal_T3_ONI_IR_T_2024-04-22-03-55-37

```
tn 98527, fp 166277, fn 157, tp 2217
std_AUROC 0.716
_____
_____
Mean Global Classification Results
TPR 0.684, FPR 0.159, Precision 0.037, Recall 0.684
tn 222588, fp 42216, fn 749, tp 1625
mean_AUROC 0.812
-----
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 0.792, FPR 0.290, Precision 0.024, Recall 0.792
tn 188084, fp 76754, fn 486, tp 1854
std AUROC 0.829
______
 -----
Mean Global Classification Results
TPR 0.727, FPR 0.266, Precision 0.024, Recall 0.727
tn 194479, fp 70359, fn 639, tp 1701
mean_AUROC 0.794
-----
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 0.880, FPR 0.549, Precision 0.014, Recall 0.880
tn 119437, fp 145367, fn 286, tp 2088
std AUROC 0.701
_____
______
Mean Global Classification Results
TPR 0.528, FPR 0.146, Precision 0.032, Recall 0.528
tn 226262, fp 38542, fn 1120, tp 1254
mean AUROC 0.752
-----
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 0.934, FPR 0.628, Precision 0.013, Recall 0.934



































