```
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 - MultiModal_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:0.0023
epoch [2/20], loss:0.0017
epoch [3/20], loss:0.0013
epoch [4/20], loss:0.0012
epoch [5/20], loss:0.0011
epoch [6/20], loss:0.0010
epoch [7/20], loss:0.0010
epoch [8/20], loss:0.0010
epoch [9/20], loss:0.0010
epoch [10/20], loss:0.0009
epoch [11/20], loss:0.0009
epoch [12/20], loss:0.0009
epoch [13/20], loss:0.0009
epoch [14/20], loss:0.0009
epoch [15/20], loss:0.0009
epoch [16/20], loss:0.0009
epoch [17/20], loss:0.0009
epoch [18/20], loss:0.0009
epoch [19/20], loss:0.0009
epoch [20/20], loss:0.0009
Training has Completed
Forward pass occuring
Forward pass completed
```

MultiModal_Thermal_T3_ONI_IR_T_2024-04-17-23-38-27

```
std_AUROC 0.741
_____
_____
Mean Global Classification Results
TPR 0.667, FPR 0.188, Precision 0.031, Recall 0.667
tn 215046, fp 49758, fn 791, tp 1583
mean_AUROC 0.783
-----
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 0.890, FPR 0.275, Precision 0.028, Recall 0.890
tn 191937, fp 72901, fn 257, tp 2083
std AUROC 0.872
______
 Mean Global Classification Results
TPR 0.865, FPR 0.229, Precision 0.032, Recall 0.865
tn 204147, fp 60691, fn 316, tp 2024
mean_AUROC 0.883
-----
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 0.872, FPR 0.508, Precision 0.015, Recall 0.872
tn 130162, fp 134642, fn 304, tp 2070
std AUROC 0.727
______
______
Mean Global Classification Results
TPR 0.657, FPR 0.209, Precision 0.027, Recall 0.657
tn 209509, fp 55295, fn 814, tp 1560
mean AUROC 0.769
-----
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

tn 198054, fp 66750, fn 930, tp 1444

TPR 0.608, FPR 0.252, Precision 0.021, Recall 0.608



































