```
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 - 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:0.0029
epoch [2/20], loss:0.0019
epoch [3/20], loss:0.0014
epoch [4/20], loss:0.0013
epoch [5/20], loss:0.0012
epoch [6/20], loss:0.0011
epoch [7/20], loss:0.0011
epoch [8/20], loss:0.0010
epoch [9/20], loss:0.0010
epoch [10/20], loss:0.0010
epoch [11/20], loss:0.0010
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:0.0008
epoch [20/20], loss:0.0008
Training has Completed
Forward pass occuring
Forward pass completed
```

MultiModal_Thermal_T3_ONI_IR_T_2024-04-22-05-32-44

```
_____
_____
Mean Global Classification Results
TPR 0.689, FPR 0.268, Precision 0.023, Recall 0.689
tn 193923, fp 70881, fn 739, tp 1635
mean_AUROC 0.779
-----
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 0.883, FPR 0.272, Precision 0.028, Recall 0.883
tn 192805, fp 72033, fn 273, tp 2067
std AUROC 0.870
______
 Mean Global Classification Results
TPR 0.880, FPR 0.233, Precision 0.032, Recall 0.880
tn 203068, fp 61770, fn 281, tp 2059
mean_AUROC 0.889
-----
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 0.839, FPR 0.479, Precision 0.015, Recall 0.839
tn 138072, fp 126732, fn 383, tp 1991
std AUROC 0.725
_____
______
Mean Global Classification Results
TPR 0.628, FPR 0.258, Precision 0.021, Recall 0.628
tn 196599, fp 68205, fn 883, tp 1491
mean AUROC 0.755
-----
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

std_AUROC 0.738

tn 127865, fp 136939, fn 267, tp 2107

TPR 0.888, FPR 0.517, Precision 0.015, Recall 0.888



































