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 - 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 = 1Fair Comparison = True Dropout = 0.25Learning Rate = 0.0002 Num Epochs = 20Chunk Size = 64 Forward Chunk Size = 8 Loss Fn = MSELoss() Training has Begun epoch [1/20], loss:0.0019 epoch [2/20], loss:0.0014 epoch [3/20], loss:0.0012 epoch [4/20], loss:0.0011 epoch [5/20], loss:0.0010 epoch [6/20], loss:0.0010 epoch [7/20], loss:0.0009 epoch [8/20], loss:0.0009 epoch [9/20], loss:0.0008 epoch [10/20], loss:0.0008 epoch [11/20], loss:0.0008 epoch [12/20], loss:0.0008 epoch [13/20], loss:0.0008 epoch [14/20], loss:0.0008 epoch [15/20], loss:0.0008 epoch [16/20], loss:0.0008 epoch [17/20], loss:0.0008 epoch [18/20], loss:0.0008 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_2024-04-22-02-09-00

```
_____
_____
Mean Global Classification Results
TPR 0.663, FPR 0.258, Precision 0.023, Recall 0.663
tn 196594, fp 68210, fn 799, tp 1575
mean_AUROC 0.763
-----
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 0.887, FPR 0.252, Precision 0.030, Recall 0.887
tn 198008, fp 66830, fn 265, tp 2075
std AUROC 0.879
______
 Mean Global Classification Results
TPR 0.919, FPR 0.224, Precision 0.035, Recall 0.919
tn 205507, fp 59331, fn 189, tp 2151
mean_AUROC 0.902
-----
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 0.869, FPR 0.506, Precision 0.015, Recall 0.869
tn 130683, fp 134121, fn 312, tp 2062
std AUROC 0.727
_____
______
Mean Global Classification Results
TPR 0.575, FPR 0.193, Precision 0.026, Recall 0.575
tn 213732, fp 51072, fn 1008, tp 1366
mean AUROC 0.739
-----
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 121428, fp 143376, fn 239, tp 2135

TPR 0.899, FPR 0.541, Precision 0.015, Recall 0.899



































