

Modality 1 - Thermal
Non Falls - 48, Falls - 173

Modality 2 - IP
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 - 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 = L1Loss()

Training has Begun
epoch [1/20], loss:0.0922
epoch [2/20], loss:0.0707
epoch [3/20], loss:0.0594
epoch [4/20], loss:0.0555
epoch [5/20], loss:0.0524
epoch [6/20], loss:0.0505
epoch [7/20], loss:0.0477
epoch [8/20], loss:0.0462
epoch [9/20], loss:0.0453
epoch [10/20], loss:0.0447
epoch [11/20], loss:0.0439
epoch [12/20], loss:0.0433
epoch [13/20], loss:0.0421
epoch [14/20], loss:0.0412
epoch [15/20], loss:0.0406
epoch [16/20], loss:0.0402
epoch [17/20], loss:0.0400
epoch [18/20], loss:0.0399
epoch [19/20], loss:0.0396
epoch [20/20], loss:0.0393
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-24-17-38-22

```
-----  
STD Global Classification Results  
TPR 0.912, FPR 0.298, Precision 0.034, Recall 0.912  
tn 89510, fp 38017, fn 129, tp 1329  
std_AUROC 0.860  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.923, FPR 0.216, Precision 0.047, Recall 0.923  
tn 100042, fp 27485, fn 112, tp 1346  
mean_AUROC 0.908  
-----
```

```
d:\Abdul Rasheed NITT\Academics\Eighth Semester\FYP\Implementation\FallDetection\Code\functions.py:250: RuntimeWarning: Mean of empty slice  
  final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.py: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 0.258, Precision 0.037, Recall 0.872  
tn 94585, fp 32952, fn 186, tp 1262  
std_AUROC 0.875  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.910, FPR 0.227, Precision 0.044, Recall 0.910  
tn 98584, fp 28953, fn 130, tp 1318  
mean_AUROC 0.897  
-----
```

```
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should be meaningless  
  warnings.warn(  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.py:979: UserWarning: No positive class found in y_true, recall is set to one for all thresholds.  
  warnings.warn(  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.py:1132: UndefinedMetricWarning: No positive samples in y_true, true positive value should be meaningless  
  warnings.warn(  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.py:979: UserWarning: No positive class found in y_true, recall is set to one for all thresholds.  
  warnings.warn(  
d:\Abdul Rasheed NITT\Academics\Eighth Semester\FYP\Implementation\FallDetection\Code\functions.py:250: RuntimeWarning: Mean of empty slice  
  final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos  
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.  
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```

```
-----  
STD Global Classification Results  
TPR 0.929, FPR 0.270, Precision 0.038, Recall 0.929  
tn 93157, fp 34370, fn 103, tp 1355  
std_AUROC 0.894  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.934, FPR 0.217, Precision 0.047, Recall 0.934  
tn 99869, fp 27658, fn 96, tp 1362  
mean_AUROC 0.918  
-----
```

```
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\func  
tions.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,
```

()













