

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 - EarlyAddition_3DCAE
Key Frame Extraction - False
Feature Extraction - True
Background Subtraction - True
Background Subtraction Algorithm - GMG
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 = MSELoss()

Training has Begun
epoch [1/20], loss:0.0028
epoch [2/20], loss:0.0019
epoch [3/20], loss:0.0015
epoch [4/20], loss:0.0012
epoch [5/20], loss:0.0009
epoch [6/20], loss:0.0006
epoch [7/20], loss:0.0005
epoch [8/20], loss:0.0004
epoch [9/20], loss:0.0003
epoch [10/20], loss:0.0002
epoch [11/20], loss:0.0001
epoch [12/20], loss:0.0001
epoch [13/20], loss:0.0000
epoch [14/20], loss:0.0000
epoch [15/20], loss:0.0000
epoch [16/20], loss:0.0000
epoch [17/20], loss:0.0000
epoch [18/20], loss:0.0000
epoch [19/20], loss:0.0000
epoch [20/20], loss:0.0000
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-19-10-03-20

```
-----  
STD Global Classification Results  
TPR 0.885, FPR 0.220, Precision 0.044, Recall 0.885  
tn 99514, fp 28013, fn 167, tp 1291  
std_AUROC 0.907  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.930, FPR 0.251, Precision 0.041, Recall 0.930  
tn 95520, fp 32007, fn 102, tp 1356  
mean_AUROC 0.898  
-----
```

```
d:\FYP-Human-Fall-Detection\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\sindh\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 0.865, FPR 0.185, Precision 0.050, Recall 0.865  
tn 103957, fp 23580, fn 195, tp 1253  
std_AUROC 0.906  
-----
```

```
-----  
Mean Global Classification Results  
TPR 0.898, FPR 0.248, Precision 0.039, Recall 0.898  
tn 95859, fp 31678, fn 147, tp 1301  
mean_AUROC 0.883  
-----
```

```

c:\Users\sindh\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\sindh\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\sindh\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
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c:\Users\sindh\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:\FYP-Human-Fall-Detection\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\sindh\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 0.866, FPR 0.168, Precision 0.056, Recall 0.866
tn 106118, fp 21409, fn 196, tp 1262
std_AUROC 0.921
-----
-----
Mean Global Classification Results
TPR 0.925, FPR 0.258, Precision 0.039, Recall 0.925
tn 94597, fp 32930, fn 110, tp 1348
mean_AUROC 0.893
-----

d:\FYP-Human-Fall-Detection\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\sindh\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,

```

()











