



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 - LateSubtraction\_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  
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:0.0018  
epoch [2/20], loss:0.0008  
epoch [3/20], loss:0.0004  
epoch [4/20], loss:0.0003  
epoch [5/20], loss:0.0002  
epoch [6/20], loss:0.0001  
epoch [7/20], loss:0.0001  
epoch [8/20], loss:0.0000  
epoch [9/20], loss:0.0000  
epoch [10/20], loss:0.0000  
epoch [11/20], loss:0.0000  
epoch [12/20], loss:0.0000  
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\_2024-04-17-13-49-08

-----  
STD Global Classification Results

TPR 0.738, FPR 0.173, Precision 0.051, Recall 0.738  
tn 154866, fp 32303, fn 622, tp 1752  
std\_AUROC 0.848  
-----

-----  
Mean Global Classification Results

TPR 0.865, FPR 0.292, Precision 0.036, Recall 0.865  
tn 132553, fp 54616, fn 321, tp 2053  
mean\_AUROC 0.829  
-----

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 0.904, FPR 0.236, Precision 0.032, Recall 0.904  
tn 143638, fp 44302, fn 154, tp 1449  
std\_AUROC 0.898  
-----

-----  
Mean Global Classification Results

TPR 0.928, FPR 0.311, Precision 0.025, Recall 0.928  
tn 129399, fp 58541, fn 115, tp 1488  
mean\_AUROC 0.855  
-----

```

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
  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(
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 0.734, FPR 0.242, Precision 0.037, Recall 0.734
tn 141788, fp 45381, fn 631, tp 1743
std_AUROC 0.818
-----

```

```

-----
Mean Global Classification Results
TPR 0.806, FPR 0.299, Precision 0.033, Recall 0.806
tn 131289, fp 55880, fn 461, tp 1913
mean_AUROC 0.806
-----

```

```

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,

```

```

()
```













