```
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 - EarlySubtraction 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:0.0085
epoch [2/20], loss:0.0041
epoch [3/20], loss:0.0020
epoch [4/20], loss:0.0008
epoch [5/20], loss:0.0004
epoch [6/20], loss:0.0002
epoch [7/20], loss:0.0002
epoch [8/20], loss:0.0001
epoch [9/20], loss:0.0001
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 occuring Forward pass completed MultiModal_Thermal_T3_IP_T_2024-04-19-11-17-35 _____ 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 0.899, FPR 0.248, Precision 0.040, Recall 0.899 tn 95872, fp 31655, fn 147, tp 1311 mean AUROC 0.889 ----d:\FYP-Human-Fall-Detection\Code\functions.py:250: RuntimeWarning: Mean of em pty 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\na nfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.</pre> 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 103959, fp 23578, fn 195, tp 1253 std AUROC 0.906 -----______ Mean Global Classification Results

TPR 0.885, FPR 0.254, Precision 0.038, Recall 0.885 tn 95176, fp 32361, fn 167, tp 1281 mean AUROC 0.880

```
c:\Users\sindh\anaconda3\envs\fyp base paper 2\lib\site-packages\sklearn\metr
ics\ 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\metr
ics\_ranking.py:979: UserWarning: No positive class found in y_true, recall i
s set to one for all thresholds.
  warnings.warn(
c:\Users\sindh\anaconda3\envs\fyp base paper 2\lib\site-packages\sklearn\metr
ics\ 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\metr
ics\ ranking.py:979: UserWarning: No positive class found in y true, recall i
s set to one for all thresholds.
  warnings.warn(
d:\FYP-Human-Fall-Detection\Code\functions.py:250: RuntimeWarning: Mean of em
pty 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\na
nfunctions.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 106122, fp 21405, fn 196, tp 1262
std AUROC 0.922
-----
-----
Mean Global Classification Results
TPR 0.923, FPR 0.283, Precision 0.036, Recall 0.923
tn 91410, fp 36117, fn 112, tp 1346
mean AUROC 0.886
d:\FYP-Human-Fall-Detection\Code\functions.py:250: RuntimeWarning: Mean of em
pty 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\na
nfunctions.py:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.</pre>
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
()
```























