

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 - LateAddition_3DCAE
Key Frame Extraction - False
Feature Extraction - False
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:0.0070
epoch [2/20], loss:0.0051
epoch [3/20], loss:0.0041
epoch [4/20], loss:0.0035
epoch [5/20], loss:0.0032
epoch [6/20], loss:0.0029
epoch [7/20], loss:0.0028
epoch [8/20], loss:0.0027
epoch [9/20], loss:0.0026
epoch [10/20], loss:0.0025
epoch [11/20], loss:0.0024
epoch [12/20], loss:0.0023
epoch [13/20], loss:0.0022
epoch [14/20], loss:0.0021
epoch [15/20], loss:0.0021
epoch [16/20], loss:0.0021
epoch [17/20], loss:0.0020
epoch [18/20], loss:0.0020
epoch [19/20], loss:0.0019
epoch [20/20], loss:0.0020
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-15-22-40-52

STD Global Classification Results

TPR 0.908, FPR 0.470, Precision 0.024, Recall 0.908
tn 99230, fp 87939, fn 218, tp 2156
std_AUROC 0.762

Mean Global Classification Results

TPR 0.715, FPR 0.248, Precision 0.035, Recall 0.715
tn 140829, fp 46340, fn 676, tp 1698
mean_AUROC 0.781

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 0.811, FPR 0.235, Precision 0.029, Recall 0.811
tn 143720, fp 44220, fn 303, tp 1300
std_AUROC 0.875

Mean Global Classification Results

TPR 0.905, FPR 0.242, Precision 0.031, Recall 0.905
tn 142431, fp 45509, fn 152, tp 1451
mean_AUROC 0.895

```

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 0.770, FPR 0.343, Precision 0.028, Recall 0.770
tn 122890, fp 64279, fn 546, tp 1828
std_AUROC 0.750
-----
-----
Mean Global Classification Results
TPR 0.719, FPR 0.351, Precision 0.025, Recall 0.719
tn 121402, fp 65767, fn 667, tp 1707
mean_AUROC 0.739
-----

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,

```

()











