

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 - LateConcatenation_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:0.0074
epoch [2/20], loss:0.0050
epoch [3/20], loss:0.0043
epoch [4/20], loss:0.0041
epoch [5/20], loss:0.0035
epoch [6/20], loss:0.0035
epoch [7/20], loss:0.0035
epoch [8/20], loss:0.0036
epoch [9/20], loss:0.0040
epoch [10/20], loss:0.0041
epoch [11/20], loss:0.0045
epoch [12/20], loss:0.0038
epoch [13/20], loss:0.0039
epoch [14/20], loss:0.0037
epoch [15/20], loss:0.0036
epoch [16/20], loss:0.0031
epoch [17/20], loss:0.0030
epoch [18/20], loss:0.0028
epoch [19/20], loss:0.0028
epoch [20/20], loss:0.0027
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-15-19-49-44

STD Global Classification Results

TPR 0.779, FPR 0.391, Precision 0.025, Recall 0.779
tn 113974, fp 73195, fn 525, tp 1849
std_AUROC 0.744

Mean Global Classification Results

TPR 0.732, FPR 0.263, Precision 0.034, Recall 0.732
tn 137917, fp 49252, fn 636, tp 1738
mean_AUROC 0.791

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 0.819, FPR 0.399, Precision 0.017, Recall 0.819
tn 112957, fp 74983, fn 290, tp 1313
std_AUROC 0.795

Mean Global Classification Results

TPR 0.798, FPR 0.215, Precision 0.031, Recall 0.798
tn 147531, fp 40409, fn 324, tp 1279
mean_AUROC 0.865

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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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STD Global Classification Results
TPR 0.810, FPR 0.419, Precision 0.024, Recall 0.810
tn 108801, fp 78368, fn 450, tp 1924
std_AUROC 0.730
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Mean Global Classification Results
TPR 0.737, FPR 0.348, Precision 0.026, Recall 0.737
tn 121954, fp 65215, fn 624, tp 1750
mean_AUROC 0.761
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```











