

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 - EarlyConcatenation_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:0.0196
epoch [2/20], loss:0.0182
epoch [3/20], loss:0.0175
epoch [4/20], loss:0.0171
epoch [5/20], loss:0.0169
epoch [6/20], loss:0.0168
epoch [7/20], loss:0.0168
epoch [8/20], loss:0.0167
epoch [9/20], loss:0.0167
epoch [10/20], loss:0.0167
epoch [11/20], loss:0.0166
epoch [12/20], loss:0.0166
epoch [13/20], loss:0.0166
epoch [14/20], loss:0.0166
epoch [15/20], loss:0.0166
epoch [16/20], loss:0.0165
epoch [17/20], loss:0.0165
epoch [18/20], loss:0.0165
epoch [19/20], loss:0.0165
epoch [20/20], loss:0.0165
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-15-15-09-32

STD Global Classification Results

TPR 0.740, FPR 0.409, Precision 0.022, Recall 0.740
tn 110583, fp 76586, fn 618, tp 1756
std_AUROC 0.697

Mean Global Classification Results

TPR 0.561, FPR 0.280, Precision 0.025, Recall 0.561
tn 134786, fp 52383, fn 1041, tp 1333
mean_AUROC 0.679

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 0.711, FPR 0.392, Precision 0.015, Recall 0.711
tn 114183, fp 73757, fn 463, tp 1140
std_AUROC 0.728

Mean Global Classification Results

TPR 0.794, FPR 0.325, Precision 0.020, Recall 0.794
tn 126838, fp 61102, fn 330, tp 1273
mean_AUROC 0.792

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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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  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,

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STD Global Classification Results
TPR 0.642, FPR 0.370, Precision 0.022, Recall 0.642
tn 117915, fp 69254, fn 849, tp 1525
std_AUROC 0.673
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Mean Global Classification Results
TPR 0.789, FPR 0.333, Precision 0.029, Recall 0.789
tn 124842, fp 62327, fn 502, tp 1872
mean_AUROC 0.796
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  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.
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```

()











