

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 - 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:0.0059
epoch [2/20], loss:0.0041
epoch [3/20], loss:0.0035
epoch [4/20], loss:0.0030
epoch [5/20], loss:0.0028
epoch [6/20], loss:0.0026
epoch [7/20], loss:0.0025
epoch [8/20], loss:0.0025
epoch [9/20], loss:0.0024
epoch [10/20], loss:0.0023
epoch [11/20], loss:0.0022
epoch [12/20], loss:0.0022
epoch [13/20], loss:0.0021
epoch [14/20], loss:0.0021
epoch [15/20], loss:0.0020
epoch [16/20], loss:0.0020
epoch [17/20], loss:0.0020
epoch [18/20], loss:0.0020
epoch [19/20], loss:0.0020
epoch [20/20], loss:0.0020
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-16-09-46-38

STD Global Classification Results

TPR 0.912, FPR 0.485, Precision 0.023, Recall 0.912

tn 96407, fp 90762, fn 210, tp 2164

std_AUROC 0.756

Mean Global Classification Results

TPR 0.753, FPR 0.293, Precision 0.032, Recall 0.753

tn 132398, fp 54771, fn 586, tp 1788

mean_AUROC 0.778

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 0.797, FPR 0.220, Precision 0.030, Recall 0.797

tn 146650, fp 41290, fn 325, tp 1278

std_AUROC 0.875

Mean Global Classification Results

TPR 0.872, FPR 0.177, Precision 0.040, Recall 0.872

tn 154631, fp 33309, fn 205, tp 1398

mean_AUROC 0.908

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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 0.827, FPR 0.413, Precision 0.025, Recall 0.827
tn 109885, fp 77284, fn 410, tp 1964
std_AUROC 0.743
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Mean Global Classification Results
TPR 0.795, FPR 0.403, Precision 0.024, Recall 0.795
tn 111800, fp 75369, fn 486, tp 1888
mean_AUROC 0.768
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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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```

()











