

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 - 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:0.0246
epoch [2/20], loss:0.0118
epoch [3/20], loss:0.0033
epoch [4/20], loss:0.0008
epoch [5/20], loss:0.0006
epoch [6/20], loss:0.0005
epoch [7/20], loss:0.0004
epoch [8/20], loss:0.0003
epoch [9/20], loss:0.0002
epoch [10/20], loss:0.0001
epoch [11/20], loss:0.0001
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 occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-17-16-34-27

STD Global Classification Results
TPR 0.885, FPR 0.220, Precision 0.044, Recall 0.885
tn 99508, fp 28019, fn 167, tp 1291
std_AUROC 0.909

Mean Global Classification Results
TPR 0.901, FPR 0.207, Precision 0.047, Recall 0.901
tn 101091, fp 26436, fn 144, tp 1314
mean_AUROC 0.903

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 0.867, FPR 0.187, Precision 0.050, Recall 0.867
tn 103662, fp 23875, fn 193, tp 1255
std_AUROC 0.904

Mean Global Classification Results
TPR 0.910, FPR 0.313, Precision 0.032, Recall 0.910
tn 87558, fp 39979, fn 130, tp 1318
mean_AUROC 0.848

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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 0.866, FPR 0.168, Precision 0.056, Recall 0.866
tn 106133, fp 21394, fn 196, tp 1262
std_AUROC 0.922
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Mean Global Classification Results
TPR 0.919, FPR 0.241, Precision 0.042, Recall 0.919
tn 96844, fp 30683, fn 118, tp 1340
mean_AUROC 0.897
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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.
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,

```

()











