

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 - EarlyAddition_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:0.0189
epoch [2/20], loss:0.0179
epoch [3/20], loss:0.0174
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:0.0166
epoch [20/20], loss:0.0166
Training has Completed

Forward pass occurring
Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-15-17-32-00

STD Global Classification Results

TPR 0.741, FPR 0.426, Precision 0.022, Recall 0.741
tn 107410, fp 79759, fn 615, tp 1759
std_AUROC 0.691

Mean Global Classification Results

TPR 0.572, FPR 0.268, Precision 0.026, Recall 0.572
tn 137007, fp 50162, fn 1016, tp 1358
mean_AUROC 0.691

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 0.690, FPR 0.378, Precision 0.015, Recall 0.690
tn 116960, fp 70980, fn 497, tp 1106
std_AUROC 0.727

Mean Global Classification Results

TPR 0.688, FPR 0.333, Precision 0.017, Recall 0.688
tn 125447, fp 62493, fn 500, tp 1103
mean_AUROC 0.738

```
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.
```

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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
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```

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

```
-----
STD Global Classification Results
```

```
TPR 0.628, FPR 0.358, Precision 0.022, Recall 0.628
```

```
tn 120137, fp 67032, fn 883, tp 1491
```

```
std_AUROC 0.671
```

```
-----
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```

```
Mean Global Classification Results
```

```
TPR 0.701, FPR 0.256, Precision 0.034, Recall 0.701
```

```
tn 139275, fp 47894, fn 710, tp 1664
```

```
mean_AUROC 0.785
```

```
-----
```

```
d:\FYP-Human-Fall-Detection\Code\functions.py:250: RuntimeWarning: Mean of empty slice
```

```
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```

```
()
```











