



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 - EarlySubtraction\_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:0.0209  
epoch [2/20], loss:0.0202  
epoch [3/20], loss:0.0195  
epoch [4/20], loss:0.0191  
epoch [5/20], loss:0.0188  
epoch [6/20], loss:0.0186  
epoch [7/20], loss:0.0184  
epoch [8/20], loss:0.0183  
epoch [9/20], loss:0.0181  
epoch [10/20], loss:0.0181  
epoch [11/20], loss:0.0180  
epoch [12/20], loss:0.0179  
epoch [13/20], loss:0.0179  
epoch [14/20], loss:0.0179  
epoch [15/20], loss:0.0178  
epoch [16/20], loss:0.0178  
epoch [17/20], loss:0.0177  
epoch [18/20], loss:0.0177  
epoch [19/20], loss:0.0177  
epoch [20/20], loss:0.0177  
Training has Completed

Forward pass occurring  
Forward pass completed

MultiModal\_Thermal\_T3\_IP\_T\_2024-04-16-07-40-39

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STD Global Classification Results

TPR 0.923, FPR 0.618, Precision 0.019, Recall 0.923  
tn 71513, fp 115656, fn 182, tp 2192  
std\_AUROC 0.687  
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Mean Global Classification Results

TPR 0.379, FPR 0.168, Precision 0.028, Recall 0.379  
tn 155710, fp 31459, fn 1475, tp 899  
mean\_AUROC 0.558  
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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 0.756, FPR 0.392, Precision 0.016, Recall 0.756  
tn 114226, fp 73714, fn 391, tp 1212  
std\_AUROC 0.737  
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Mean Global Classification Results

TPR 0.602, FPR 0.249, Precision 0.020, Recall 0.602  
tn 141081, fp 46859, fn 638, tp 965  
mean\_AUROC 0.706  
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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 0.754, FPR 0.451, Precision 0.021, Recall 0.754
tn 102769, fp 84400, fn 585, tp 1789
std_AUROC 0.687
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Mean Global Classification Results
TPR 0.730, FPR 0.336, Precision 0.027, Recall 0.730
tn 124242, fp 62927, fn 641, tp 1733
mean_AUROC 0.746
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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.
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,

```

()













