```
Modality 1 - Thermal
Non Falls - 48, Falls - 173
Modality 2 - ONI_IR
Non Falls - 48, Falls - 173
Train Dataloader - 48
Test Dataloader - 173
Device Used - cuda
Model Used - MultiModal_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 = SmoothL1Loss()
Training has Begun
epoch [1/20], loss:0.0002
epoch [2/20], loss:0.0001
epoch [3/20], loss:0.0000
epoch [4/20], loss:0.0000
epoch [5/20], loss:0.0000
epoch [6/20], loss:0.0000
epoch [7/20], loss:0.0000
epoch [8/20], loss:0.0000
epoch [9/20], loss:0.0000
epoch [10/20], loss:0.0000
epoch [11/20], loss:0.0000
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 occuring
```

Forward pass completed

```
MultiModal_Thermal_T3_ONI_IR_T_2024-04-26-18-17-44
STD Global Classification Results
TPR 0.896, FPR 0.180, Precision 0.064, Recall 0.896
tn 107513, fp 23609, fn 187, tp 1609
std_AUROC 0.926
-----
_____
Mean Global Classification Results
TPR 0.888, FPR 0.174, Precision 0.065, Recall 0.888
tn 108313, fp 22809, fn 202, tp 1594
mean AUROC 0.928
_____
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:302: RuntimeWarning: Mean of empty slice
 final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a
cross all videos
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
 var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
-----
STD Global Classification Results
TPR 0.893, FPR 0.173, Precision 0.066, Recall 0.893
tn 108442, fp 22680, fn 193, tp 1603
std_AUROC 0.917
______
_____
Mean Global Classification Results
TPR 0.925, FPR 0.212, Precision 0.056, Recall 0.925
tn 103324, fp 27798, fn 134, tp 1662
mean_AUROC 0.897
______
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:302: RuntimeWarning: Mean of empty slice
 final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a
cross all videos
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
______
STD Global Classification Results
TPR 0.878, FPR 0.155, Precision 0.072, Recall 0.878
tn 110847, fp 20275, fn 220, tp 1576
std AUROC 0.934
_____
-----
Mean Global Classification Results
TPR 0.883, FPR 0.171, Precision 0.066, Recall 0.883
tn 108676, fp 22446, fn 211, tp 1585
```

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ions.py:302: RuntimeWarning: Mean of empty slice
 final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance a
cross all videos
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\numpy\lib\nanfunctions.p
y:1670: RuntimeWarning: Degrees of freedom <= 0 for slice.
 var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,</pre>

mean AUROC 0.929





































