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 - MultiModal_3DCAE Key Frame Extraction - False Feature Extraction - False Data Augmentation - False Spatial Temporal Loss - True w1 - 1, w2 - 1e-05 Frame rate adjusted dataset - True Synchronise Video - True Video length adjustment method - Not Applicable Window Length = 8 Stride = 1Fair Comparison = True Dropout = 0.25Learning Rate = 0.0002 Num Epochs = 20Chunk Size = 64Forward Chunk Size = 8 Loss Fn = MSELoss() Training has Begun epoch [1/20], loss:0.0148 epoch [2/20], loss:0.0083 epoch [3/20], loss:0.0069 epoch [4/20], loss:0.0052 epoch [5/20], loss:0.0053 epoch [6/20], loss:0.0034 epoch [7/20], loss:0.0040 epoch [8/20], loss:0.0047 epoch [9/20], loss:0.0048 epoch [10/20], loss:0.0042 epoch [11/20], loss:0.0035 epoch [12/20], loss:0.0031 epoch [13/20], loss:0.0034 epoch [14/20], loss:0.0038 epoch [15/20], loss:0.0035 epoch [16/20], loss:0.0040 epoch [17/20], loss:0.0034 epoch [18/20], loss:0.0037 epoch [19/20], loss:0.0036 epoch [20/20], loss:0.0037 Training has Completed Forward pass occuring Forward pass completed

MultiModal_Thermal_T3_IP_T_2024-04-25-00-23-10

STD Global Classification Results TPR 0.848, FPR 0.251, Precision 0.037, Recall 0.848 tn 95516, fp 32011, fn 222, tp 1236 std AUROC 0.856 ______ -----Mean Global Classification Results TPR 0.907, FPR 0.258, Precision 0.039, Recall 0.907 tn 94581, fp 32946, fn 136, tp 1322 mean AUROC 0.879 d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct ions.py:250: 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 0.821, FPR 0.264, Precision 0.034, Recall 0.821 tn 93840, fp 33697, fn 259, tp 1189 std_AUROC 0.856 ______ Mean Global Classification Results TPR 0.892, FPR 0.249, Precision 0.039, Recall 0.892 tn 95743, fp 31794, fn 156, tp 1292 mean_AUROC 0.880 c:\Users\abdul\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\abdul\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 thres holds. warnings.warn(c:\Users\abdul\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\abdul\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 thres holds. warnings.warn(d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct ions.py:250: 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 0.886, FPR 0.237, Precision 0.041, Recall 0.886
tn 97284, fp 30243, fn 166, tp 1292
std_AUROC 0.888

Mean Global Classification Results TPR 0.914, FPR 0.250, Precision 0.040, Recall 0.914 tn 95594, fp 31933, fn 125, tp 1333 mean_AUROC 0.892

d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:250: 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.</pre>

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

()

Receiver Operating Characteristic for STD of Reconstruction Error

































