```
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 - False
Frame rate adjusted dataset - False
Synchronise Video - False
Video length adjustment method - Trim Maximum
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:0.0128
epoch [2/20], loss:0.0086
epoch [3/20], loss:0.0068
epoch [4/20], loss:0.0058
epoch [5/20], loss:0.0051
epoch [6/20], loss:0.0046
epoch [7/20], loss:0.0041
epoch [8/20], loss:0.0037
epoch [9/20], loss:0.0036
epoch [10/20], loss:0.0035
epoch [11/20], loss:0.0033
epoch [12/20], loss:0.0032
epoch [13/20], loss:0.0032
epoch [14/20], loss:0.0031
epoch [15/20], loss:0.0030
epoch [16/20], loss:0.0030
epoch [17/20], loss:0.0030
epoch [18/20], loss:0.0030
epoch [19/20], loss:0.0030
epoch [20/20], loss:0.0030
Training has Completed
Forward pass occuring
Forward pass completed
```

MultiModal_Thermal_T3_IP_T_2024-04-18-17-09-34

STD Global Classification Results
TPR 0.930, FPR 0.401, Precision 0.036, Recall 0.930
tn 39652, fp 26589, fn 76, tp 1006
std_AUROC 0.797

Mean Global Classification Results TPR 0.804, FPR 0.327, Precision 0.039, Recall 0.804 tn 44557, fp 21684, fn 212, tp 870 mean_AUROC 0.788

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,

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(

```
ValueError
                                          Traceback (most recent call last)
Cell In[2], line 288
    286 names = list_of_datasets
    287 paths = [f"{project_directory}\Dataset\H5PY\{dataset_category}_Data_set-{name}-img
dim64x64.h5" for name in names]
--> 288 full_pipeline(names, dsets, paths, modelpath)
Cell In[2], line 265, in full_pipeline(names, dsets, paths, modelpath)
    263 get_total_performance_metrics(modality, frame_stats1, window_stats1, window_len)
    264 # Metrics for Output 2
--> 265 get_total_performance_metrics(modality, frame_stats2, window_stats2, window_len)
    266 # Metrics for Combined Output
    267 get_total_performance_metrics(modality, frame_stats, window_stats, window_len)
File d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code
\functions.py:213, in get_total_performance_metrics(name, frame_stats, window_stats, windo
w_len)
    212 def get_total_performance_metrics(name, frame_stats, window_stats, window_len):
--> 213
            get_curves_and_thresholds(name, frame_stats, window_stats, window_len)
            video_metrics = np.zeros((len(frame_stats), 5, window_len))
    215
    217
            # here i need to get the error and everything and store it in video metrics
File d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code
\functions.py:423, in get_curves_and_thresholds(name, frame_stats, window_stats, window_le
n)
    420
            else:
    421
                frame_std_flat[i] = 0
--> 423 std_tn, std_fp, std_fn, std_tp = confusion_matrix(frame_labels_flat, frame_std_fla
t).ravel() # , labels=[0,1]
    424 std_TPR = std_tp / (std_tp + std_fn)
    425 std_FPR = std_fp / (std_fp + std_tn)
ValueError: not enough values to unpack (expected 4, got 1)
```

















