

Train Dataloader - 176

Test Dataloader - 45

Device Used - cuda

Model Used - CNN_3D

Key Frame Extraction - True

Key Frame Extraction Algorithm - Optical_Flow

Feature Extraction - False

Data Augmentation - False

Spatial Temporal Loss - False

Frame rate adjusted dataset - False

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 = BCELoss()

Training has Begun

epoch [1/20], loss:0.4420

epoch [2/20], loss:0.3703

epoch [3/20], loss:0.3581

epoch [4/20], loss:0.3518

epoch [5/20], loss:0.3486

epoch [6/20], loss:0.3103

epoch [7/20], loss:0.2604

epoch [8/20], loss:0.1743

epoch [9/20], loss:0.1736

epoch [10/20], loss:0.1734

epoch [11/20], loss:0.1734

epoch [12/20], loss:0.1733

epoch [13/20], loss:0.1733

epoch [14/20], loss:0.1734

epoch [15/20], loss:0.1733

epoch [16/20], loss:0.1733

epoch [17/20], loss:0.1733

epoch [18/20], loss:0.1733

epoch [19/20], loss:0.1733

epoch [20/20], loss:0.1733

Training has Completed

Forward pass occurring

Forward pass completed

Thermal_T3_2024-04-27-17-36-01

STD Global Classification Results

TPR 0.987, FPR 0.012, Precision 0.923, Recall 0.987

tn 2184, fp 26, fn 4, tp 312

std_AUROC 0.996

Mean Global Classification Results

TPR 0.709, FPR 0.072, Precision 0.583, Recall 0.709

tn 2050, fp 160, fn 92, tp 224

mean_AUROC 0.825

[illegible]

[illegible]

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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
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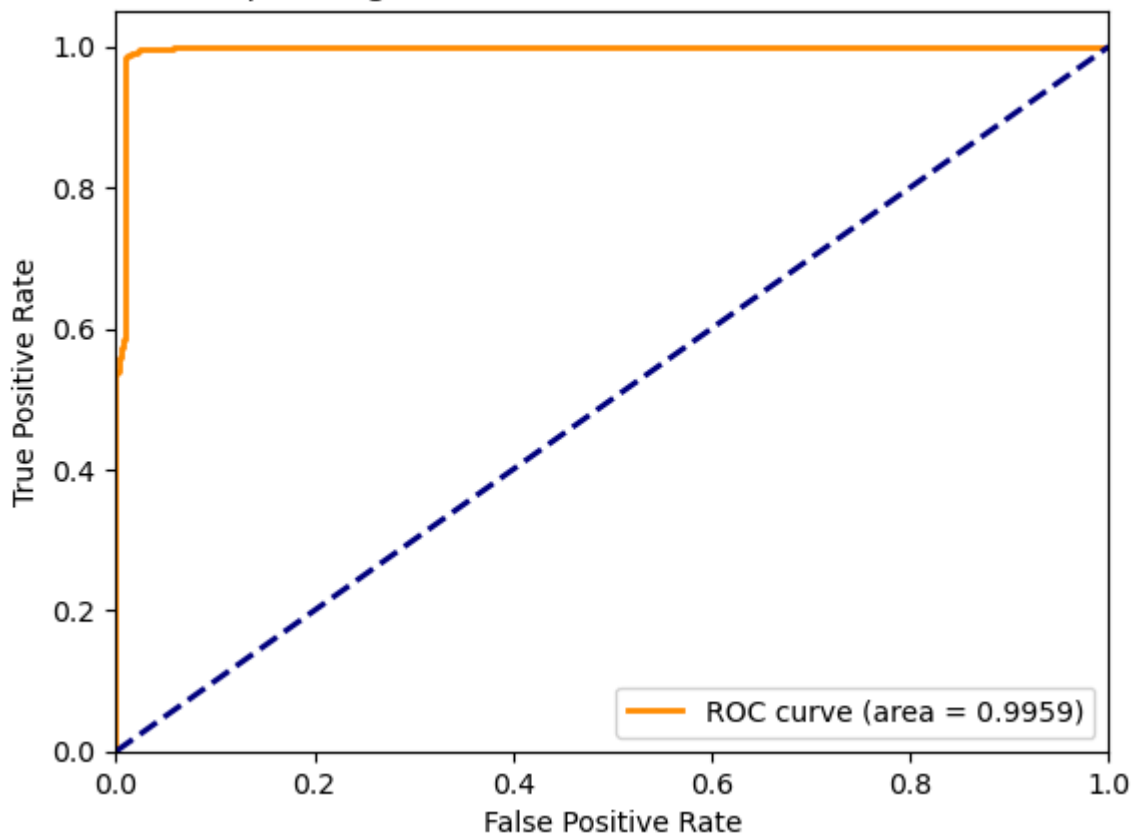
[illegible]

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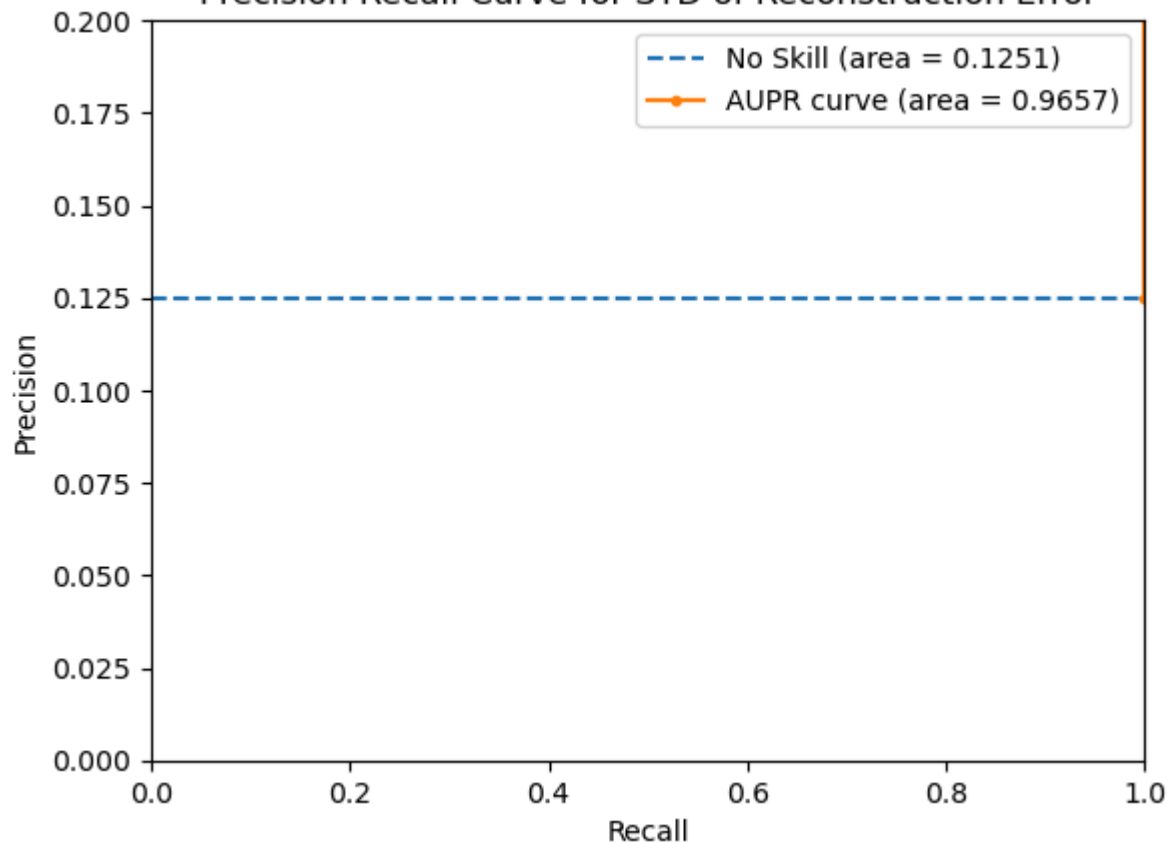

[illegible]

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d:\Abdul Rasheed NITT\Academics\Eighth Semester\FYP\Implementation\FallDetection\Code\functions.py:302: RuntimeWarning: Mean of empty slice
    final_performance_mean = np.nanmean(video_metrics, axis=0) # get the mean performance across all videos
c:\Users\abdul\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,
```

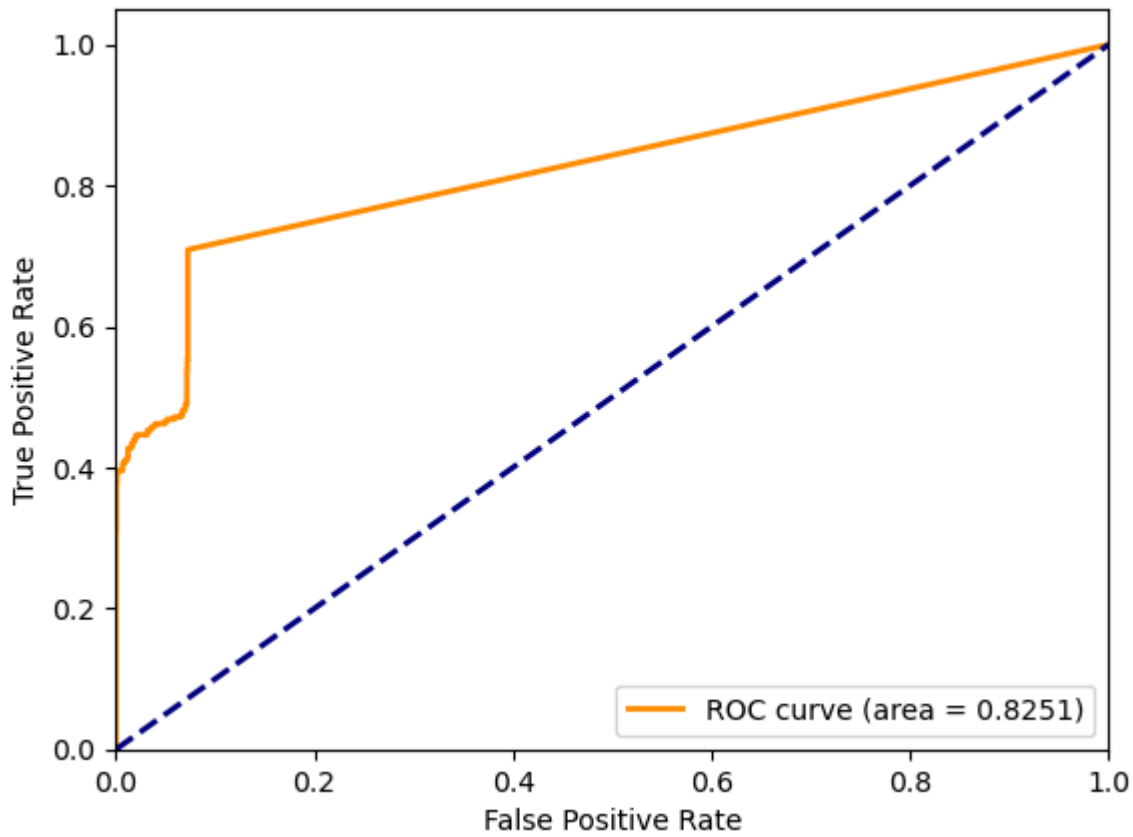
Receiver Operating Characteristic for STD of Reconstruction Error



Precision Recall Curve for STD of Reconstruction Error



Receiver Operating Characteristic for Mean of Reconstruction Error



Precision Recall Curve for Mean of Reconstruction Error

