

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 - True

Background Subtraction - True

Background Subtraction Algorithm - GMG

Data Augmentation - False

Spatial Temporal Loss - False

Frame rate adjusted dataset - True

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:0.6700

epoch [2/20], loss:0.6639

epoch [3/20], loss:0.6604

epoch [4/20], loss:0.6464

epoch [5/20], loss:0.6331

epoch [6/20], loss:0.6177

epoch [7/20], loss:0.6058

epoch [8/20], loss:0.5948

epoch [9/20], loss:0.5889

epoch [10/20], loss:0.5852

epoch [11/20], loss:0.5825

epoch [12/20], loss:0.5806

epoch [13/20], loss:0.5789

epoch [14/20], loss:0.5778

epoch [15/20], loss:0.5779

epoch [16/20], loss:0.5765

epoch [17/20], loss:0.5756

epoch [18/20], loss:0.5748

epoch [19/20], loss:0.5742

epoch [20/20], loss:0.5735

Training has Completed

Forward pass occurring

Forward pass completed

Thermal_T3_2024-04-27-17-46-54

STD Global Classification Results

TPR 0.450, FPR 0.029, Precision 0.750, Recall 0.450

tn 2147, fp 63, fn 231, tp 189

std_AUROC 0.677

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Mean Global Classification Results  
TPR 0.138, FPR 0.010, Precision 0.734, Recall 0.138  
tn 2189, fp 21, fn 362, tp 58  
mean_AUROC 0.476  
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c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.py:1123: UndefinedMetricWarning: No negative samples in y_true, false positive value should be meaningless
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[illegible]

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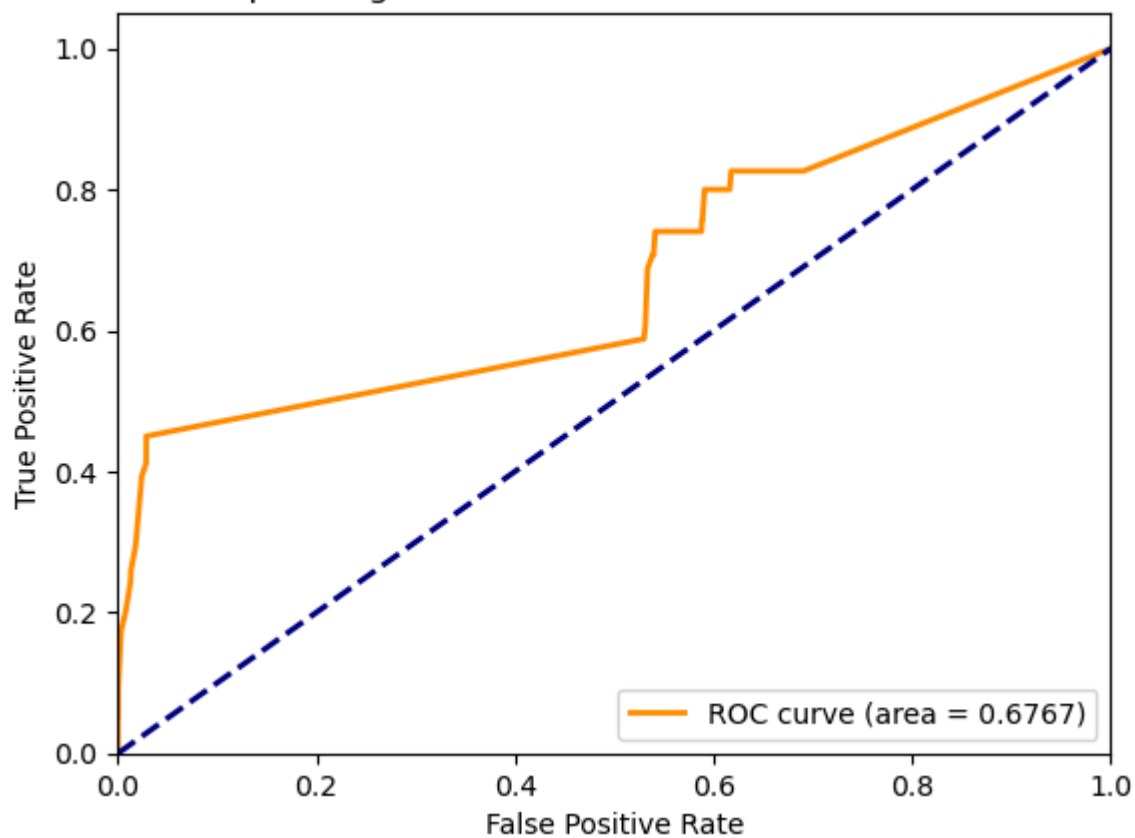
[illegible]

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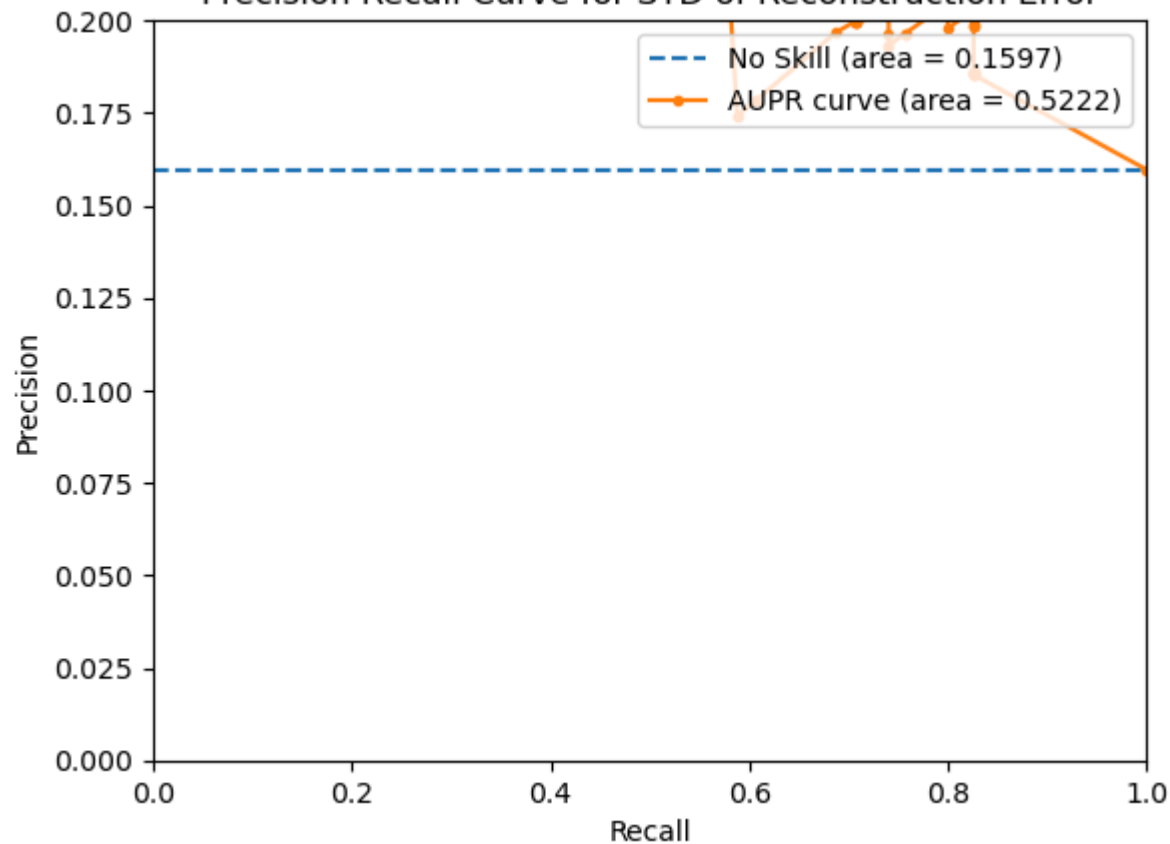

[illegible]

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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,
```

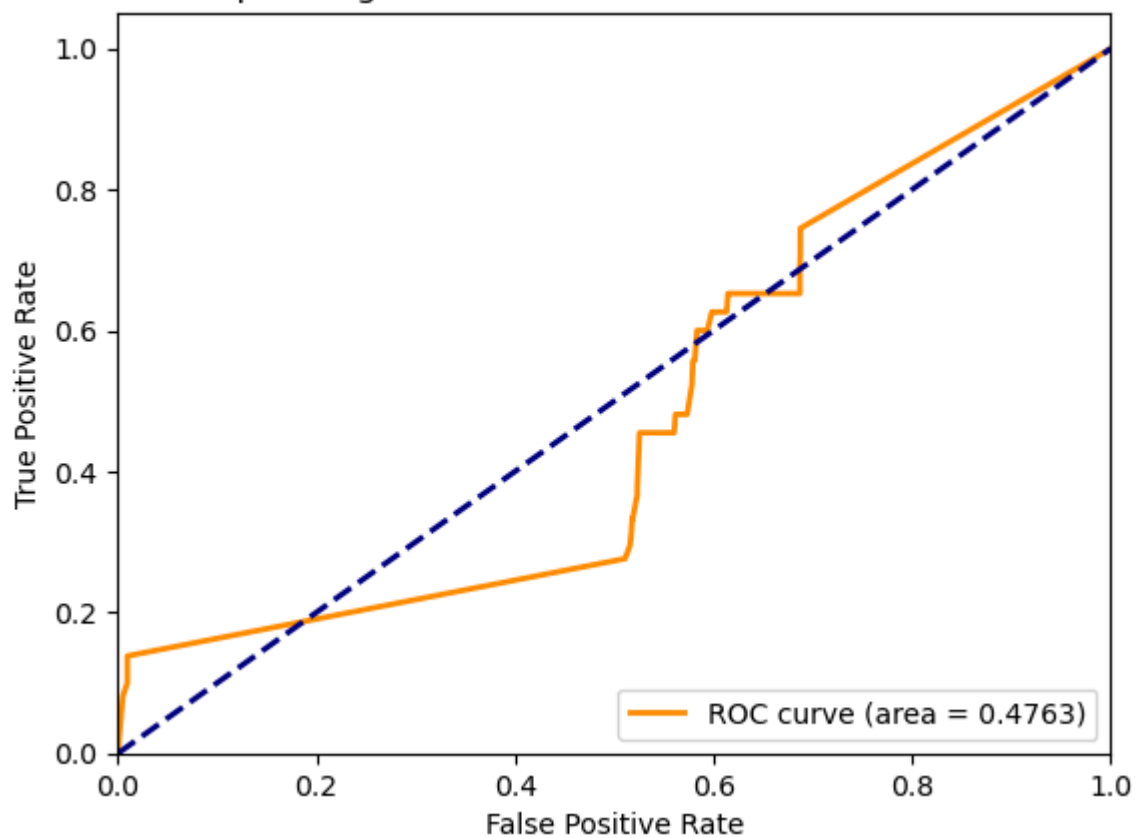
Receiver Operating Characteristic for STD of Reconstruction Error



Precision Recall Curve for STD of Reconstruction Error



Receiver Operating Characteristic for Mean of Reconstruction Error



Precision Recall Curve for Mean of Reconstruction Error

