

Train Dataloader - 176

Test Dataloader - 45

Device Used - cuda

Model Used - CNN_3D

Key Frame Extraction - True

Key Frame Extraction Algorithm - BG_Subtraction

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:0.6567

epoch [2/20], loss:0.2609

epoch [3/20], loss:0.2602

epoch [4/20], loss:0.2601

epoch [5/20], loss:0.2600

epoch [6/20], loss:0.2600

epoch [7/20], loss:0.2600

epoch [8/20], loss:0.2599

epoch [9/20], loss:0.2599

epoch [10/20], loss:0.2599

epoch [11/20], loss:0.2599

epoch [12/20], loss:0.2599

epoch [13/20], loss:0.2599

epoch [14/20], loss:0.2599

epoch [15/20], loss:0.2599

epoch [16/20], loss:0.2599

epoch [17/20], loss:0.2599

epoch [18/20], loss:0.2599

epoch [19/20], loss:0.2599

epoch [20/20], loss:0.2599

Training has Completed

Forward pass occurring

Forward pass completed

Thermal_T3_2024-04-26-17-34-07

STD Global Classification Results

TPR 0.907, FPR 0.003, Precision 0.982, Recall 0.907

tn 2361, fp 7, fn 39, tp 381

std_AUROC 0.952

Mean Global Classification Results
TPR 0.745, FPR 0.002, Precision 0.984, Recall 0.745
tn 2363, fp 5, fn 107, tp 313
mean_AUROC 0.872

[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
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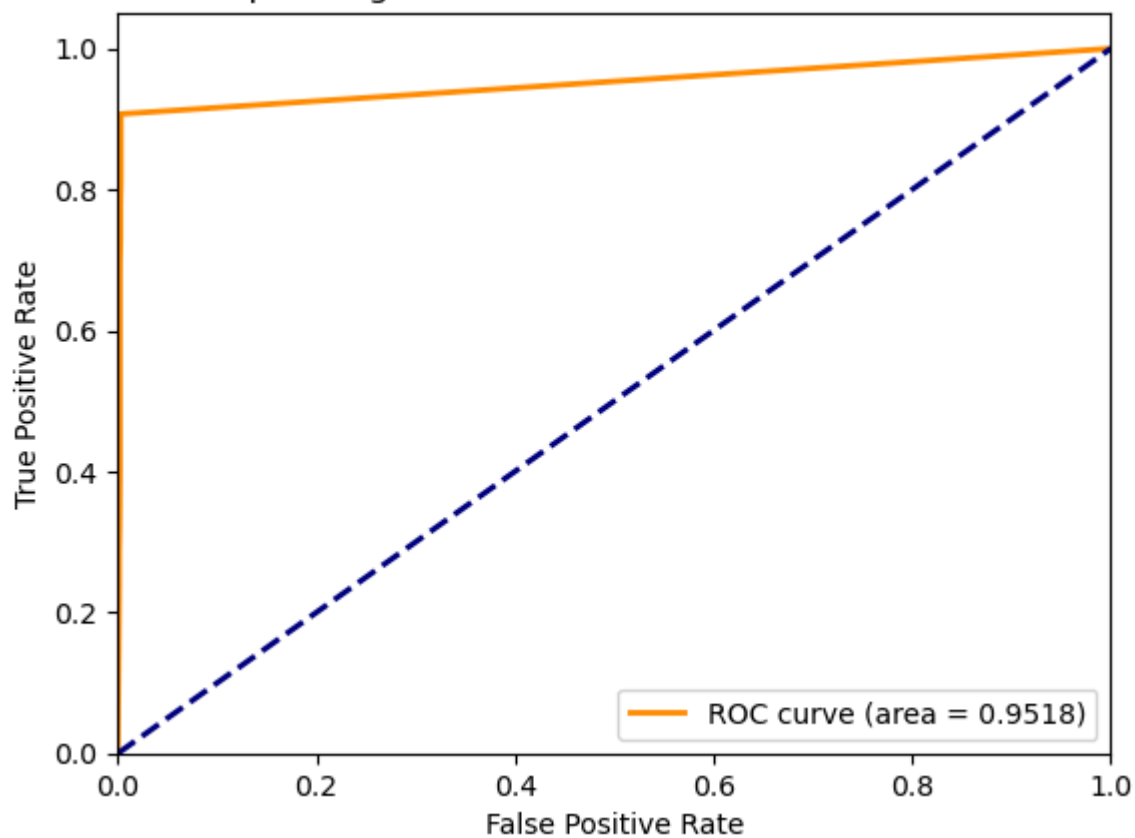
[illegible]

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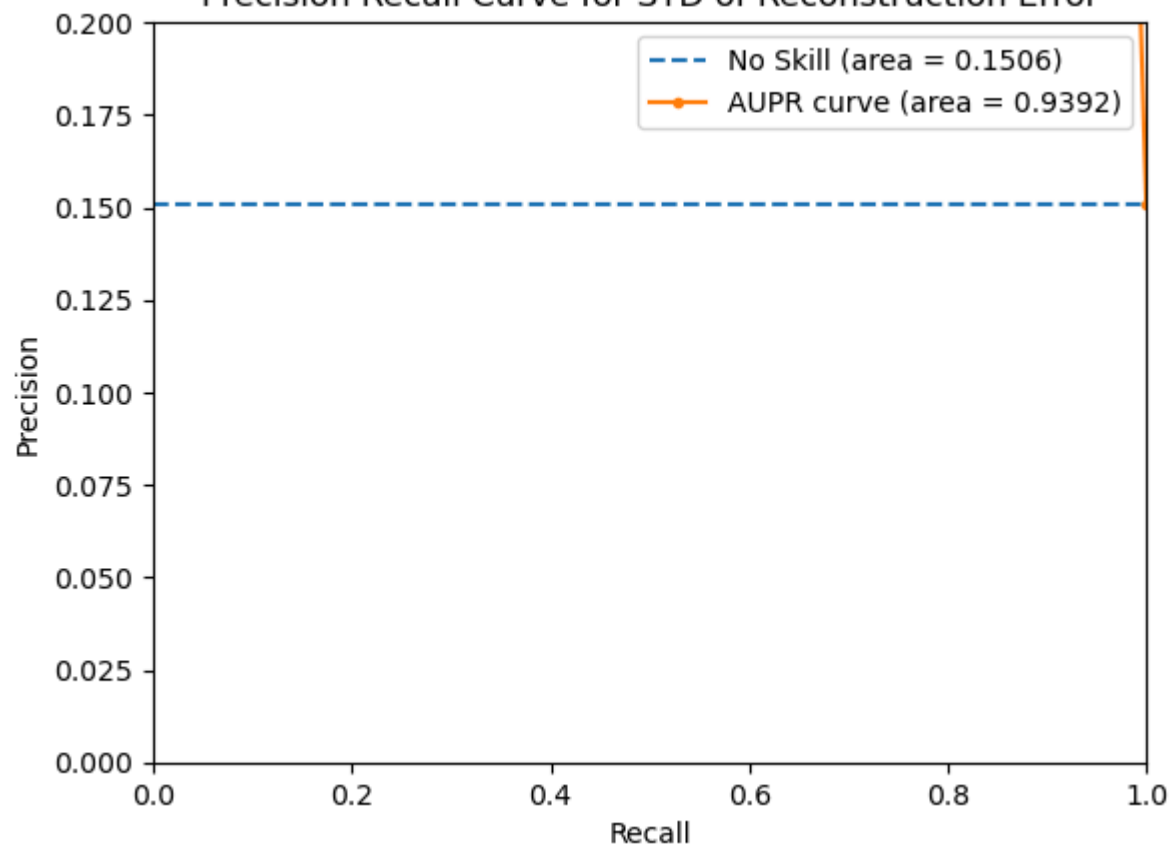

[illegible]

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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,
```

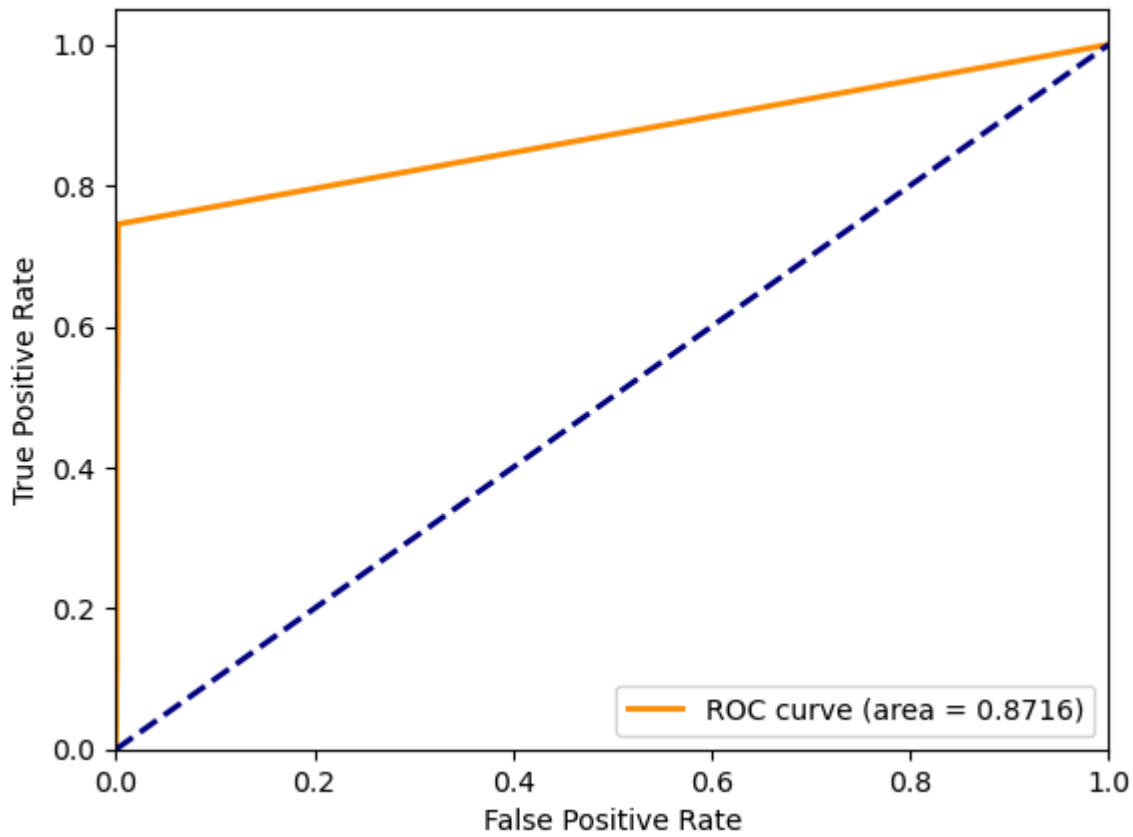
Receiver Operating Characteristic for STD of Reconstruction Error



Precision Recall Curve for STD of Reconstruction Error



Receiver Operating Characteristic for Mean of Reconstruction Error



Precision Recall Curve for Mean of Reconstruction Error

