

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 - 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:0.6302

epoch [2/20], loss:0.5908

epoch [3/20], loss:0.2630

epoch [4/20], loss:0.2604

epoch [5/20], loss:0.2600

epoch [6/20], loss:0.2600

epoch [7/20], loss:0.2599

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\_2024-04-26-16-28-17

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STD Global Classification Results

TPR 0.899, FPR 0.006, Precision 0.973, Recall 0.899

tn 1282, fp 8, fn 32, tp 284

std\_AUROC 0.946

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Mean Global Classification Results  
TPR 0.684, FPR 0.012, Precision 0.935, Recall 0.684  
tn 1275, fp 15, fn 100, tp 216  
mean_AUROC 0.837  
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[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]

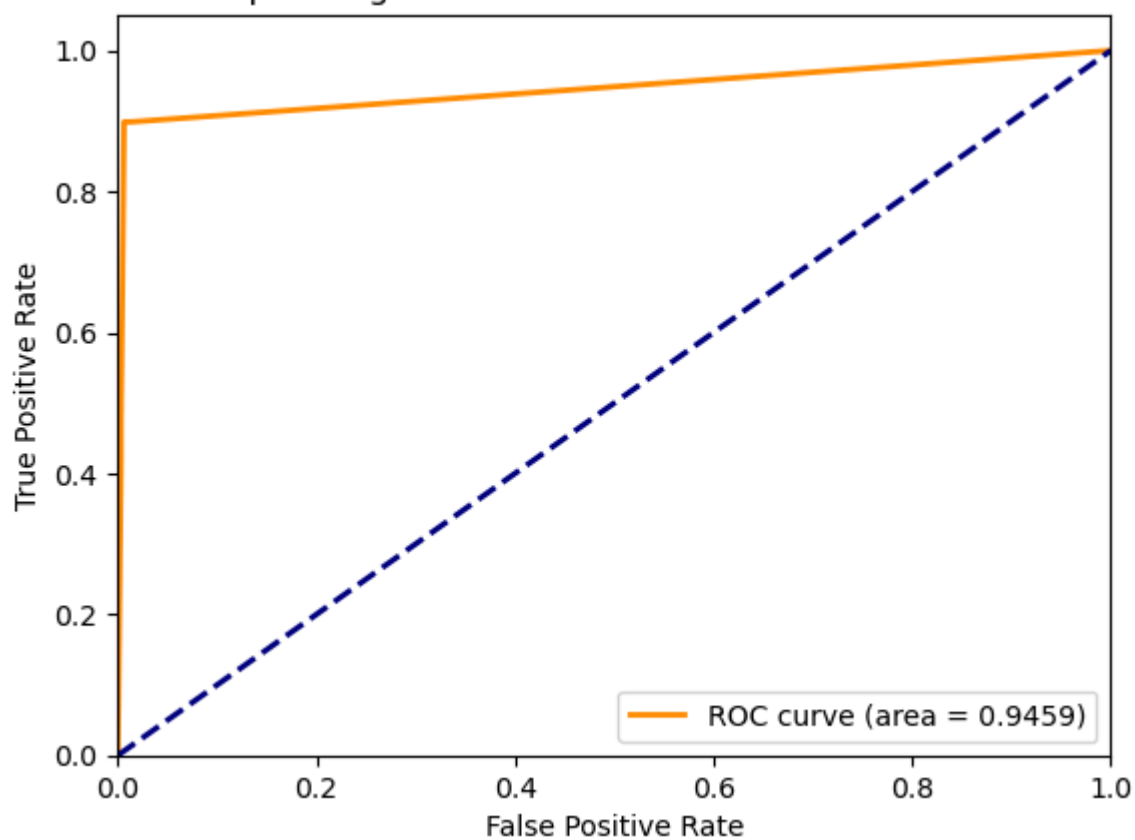
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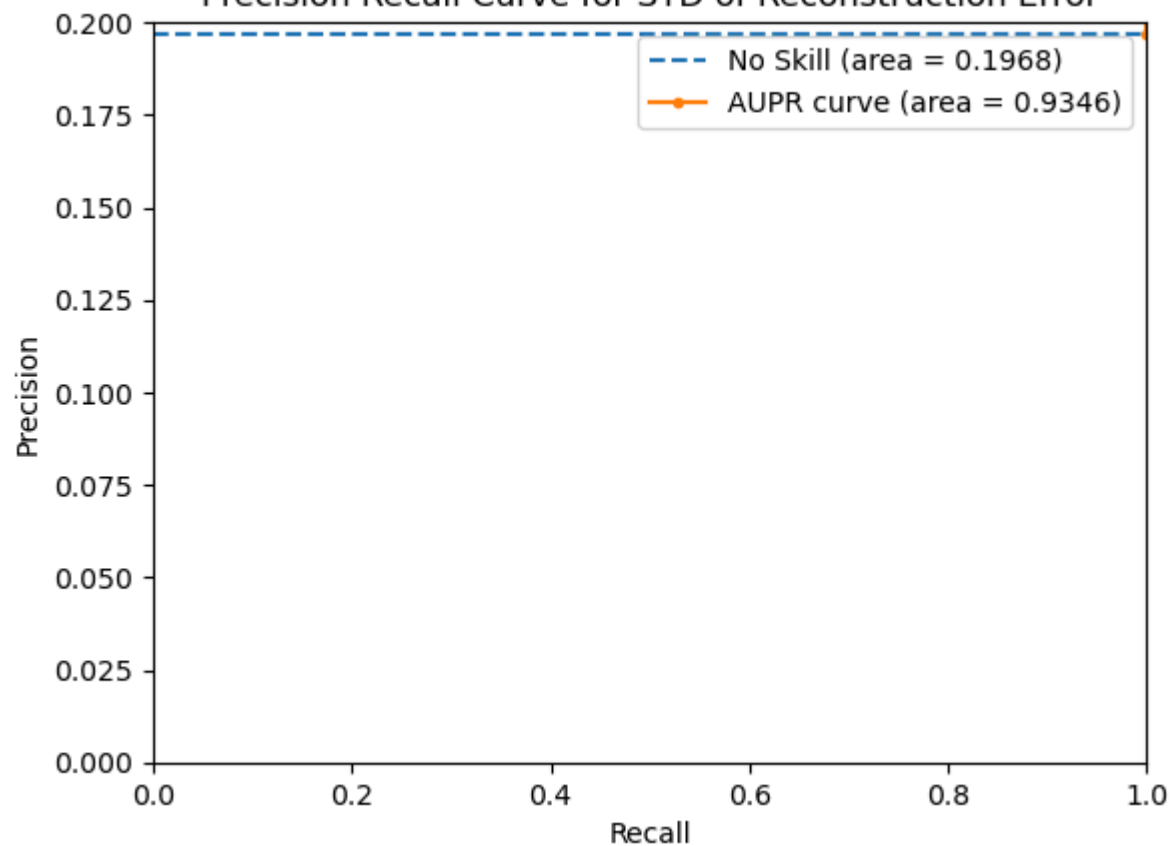
[illegible]

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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,
```

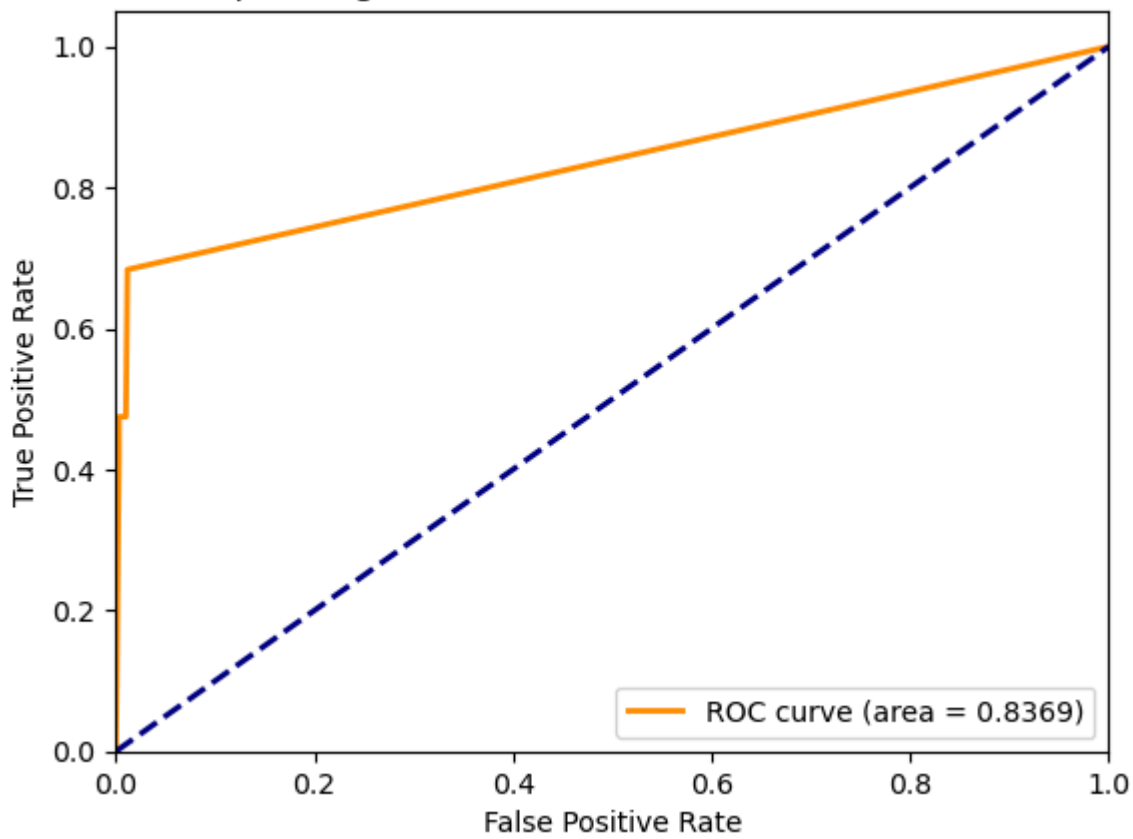
Receiver Operating Characteristic for STD of Reconstruction Error



Precision Recall Curve for STD of Reconstruction Error



Receiver Operating Characteristic for Mean of Reconstruction Error



Precision Recall Curve for Mean of Reconstruction Error

