```
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:0.6682
epoch [2/20], loss:0.1892
epoch [3/20], loss:0.1751
epoch [4/20], loss:0.1739
epoch [5/20], loss:0.1735
epoch [6/20], loss:0.1734
epoch [7/20], loss:0.1733
epoch [8/20], loss:0.1734
epoch [9/20], loss:0.1733
epoch [10/20], loss:0.1733
epoch [11/20], loss:0.1733
epoch [12/20], loss:0.1733
epoch [13/20], loss:0.1733
epoch [14/20], loss:0.1733
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 occuring
Forward pass completed

Thermal_T3_2024-04-27-14-00-08

---------------------------------
STD Global Classification Results
TPR 0.892, FPR 0.006, Precision 0.972, Recall 0.892
tn 1282, fp 8, fn 34, tp 282
std_AUROC  0.943
```

```
----------------------------------
----------------------------------
Mean Global Classification Results
TPR 0.785, FPR 0.009, Precision 0.958, Recall 0.785
tn 1279, fp 11, fn 68, tp 248
mean_AUROC 0.888
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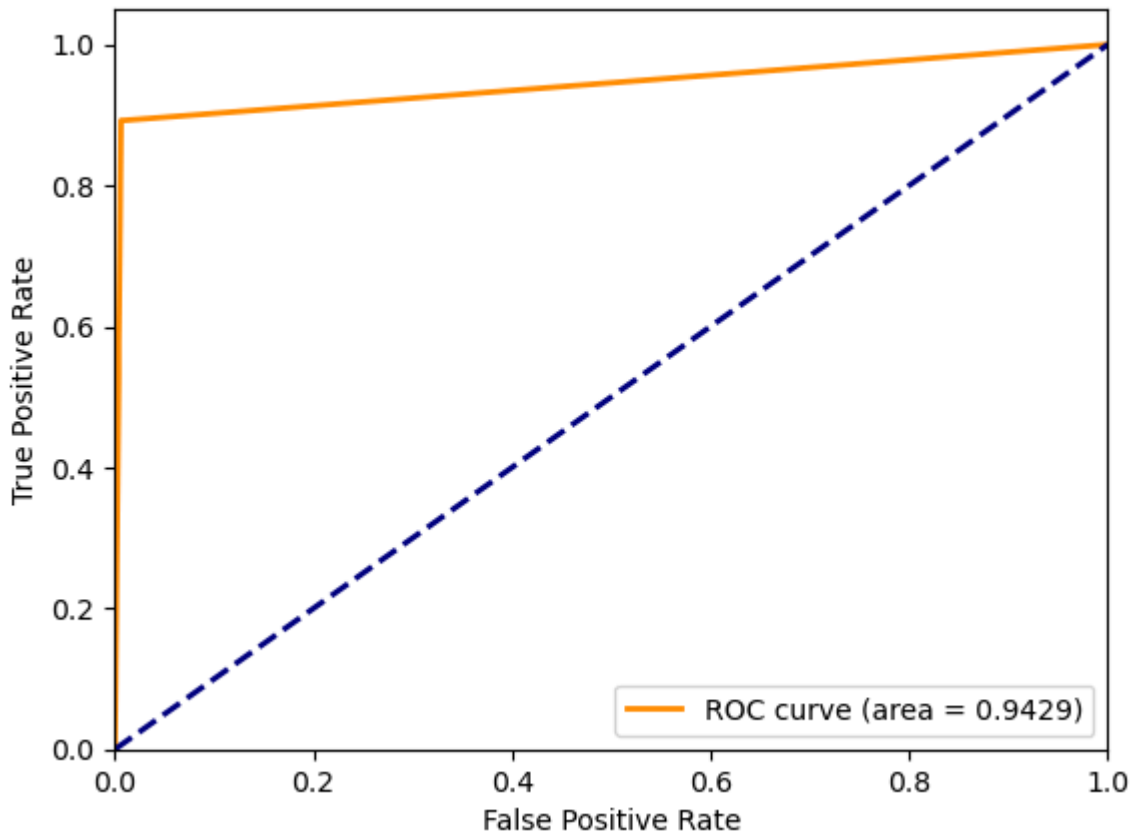
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c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:1123: UndefinedMetricWarning: No negative samples in y_true, false positive value shoul
d be meaningless
  warnings.warn(
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
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  warnings.warn(
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(
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(
```
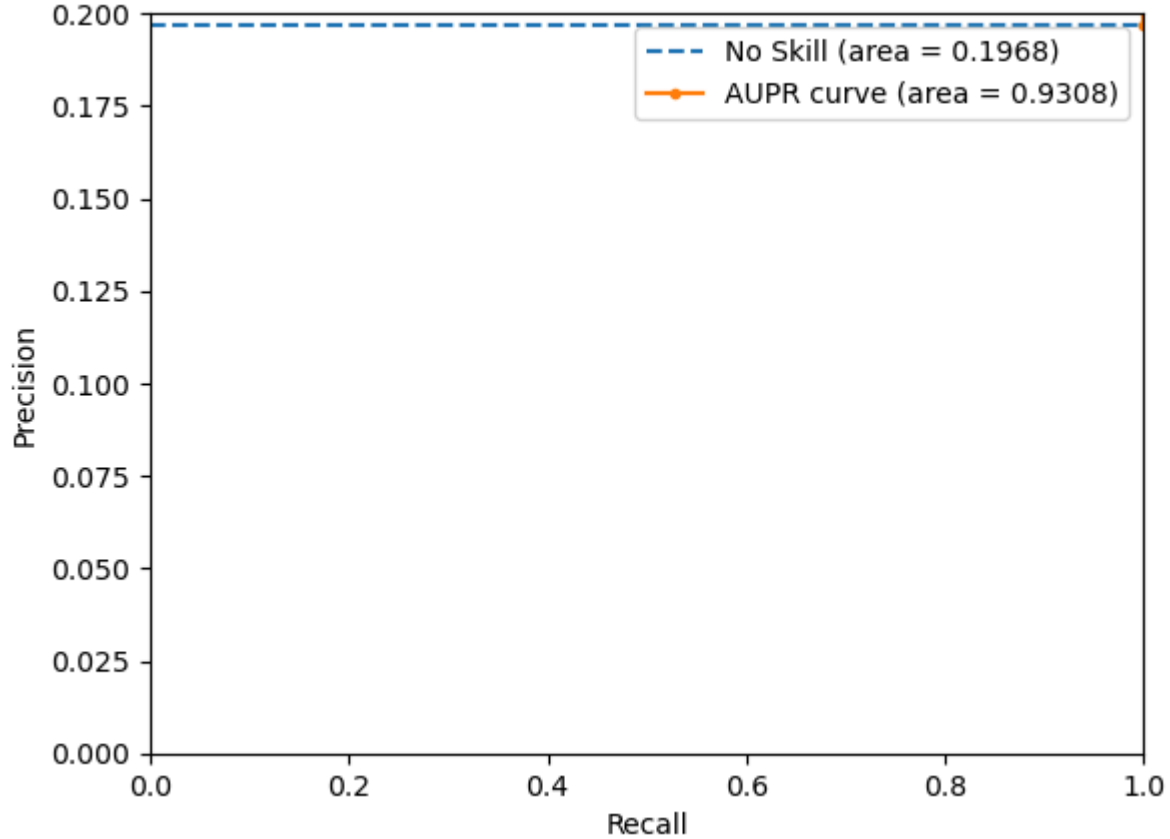
```
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
py:979: UserWarning: No positive class found in y_true, recall is set to one for all thres
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  warnings.warn(
c:\Users\abdul\anaconda3\envs\fyp_base_paper_2\lib\site-packages\sklearn\metrics\_ranking.
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py:1123: UndefinedMetricWarning: No negative samples in y_true, false positive value shoul
d be meaningless
  warnings.warn(
d:\Abdul Rasheed NITT\Academics\Eigth Semester\FYP\Implementation\FallDetection\Code\funct
ions.py:302: 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.
  var = nanvar(a, axis=axis, dtype=dtype, out=out, ddof=ddof,
```
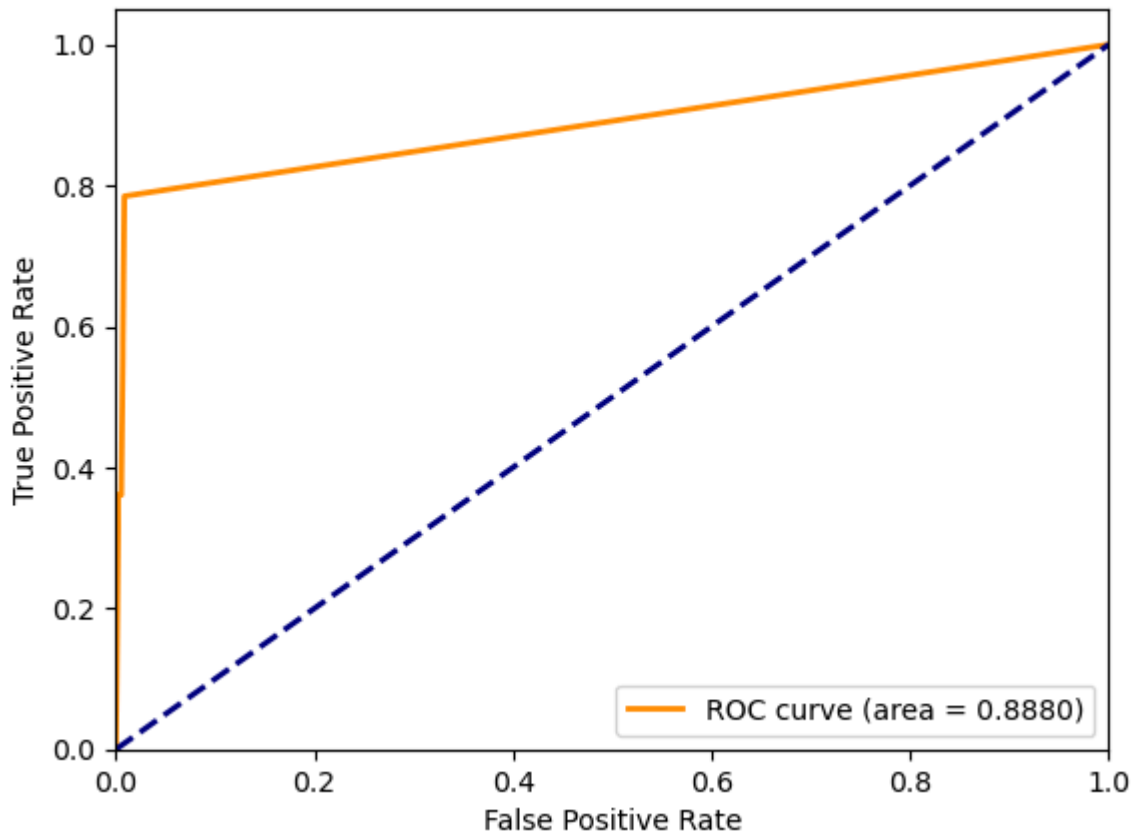
Receiver Operating Characteristic for STD of Reconstruction Error

Precision Recall Curve for STD of Reconstruction Error

Receiver Operating Characteristic for Mean of Reconstruction Error

ROC curve (area = 0.8880)

Precision Recall Curve for Mean of Reconstruction Error

No Skill (area = 0.1968)
AUPR curve (area = 0.8793)