Evaluation Report:

Clean	
overall_accuracy	1.0
overall_precision	1.0
overall_recall	1.0
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10
1	
precision	1.0
recall	1.0
f1-score	1.0
support	9
2	
precision	1.0
recall	1.0
f1-score	1.0
support	11
accuracy	1.0
macro avg	
precision	1.0
recall	1.0
f1-score	1.0
support	30
weighted avg	
precision	1.0
recall	1.0
f1-score	1.0
support	30
ZooAttack	

overall_accuracy	0.6
overall_precision	0.5644444444444
overall_recall	0.6
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10
1	
precision	0.2
recall	0.11111111111111
f1-score	0.14285714285714285
support	9
2	
precision	0.46666666666666
recall	0.63636363636364
f1-score	0.5384615384615385
support	11
accuracy	0.6
macro avg	
precision	0.55555555555555
recall	0.5824915824915825
f1-score	0.5604395604395604
support	30
weighted avg	
precision	0.56444444444444
recall	0.6
f1-score	0.5736263736263736
support	30
HopSkipJump	
overall_accuracy	0.0
overall_precision	0.0
overall_recall	0.0
metrics_per_class	

0	
precision	0.0
recall	0.0
f1-score	0.0
support	10.0
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9.0
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11.0
accuracy	0.0
macro avg	
precision	0.0
recall	0.0
f1-score	0.0
support	30.0
weighted avg	
precision	0.0
recall	0.0
f1-score	0.0
support	30.0
SignOPTAttack	
overall_accuracy	0.2
overall_precision	0.35
overall_recall	0.2
metrics_per_class	
0	
precision	0.75
recall	0.3
f1-score	0.4285714285714285

support	10
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9
2	
precision	0.27272727272727
recall	0.27272727272727
f1-score	0.27272727272727
support	11
accuracy	0.2
macro avg	
precision	0.34090909090909
recall	0.190909090909092
f1-score	0.23376623376623373
support	30
weighted avg	
precision	0.35
recall	0.2
f1-score	0.24285714285714283
support	30
BoundaryAttack	
overall_accuracy	0.0
overall_precision	0.0
overall_recall	0.0
metrics_per_class	
0	
precision	0.0
recall	0.0
f1-score	0.0
support	10.0
1	
precision	0.0
recall	0.0

f1-score	0.0
support	9.0
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11.0
accuracy	0.0
macro avg	
precision	0.0
recall	0.0
f1-score	0.0
support	30.0
weighted avg	
precision	0.0
recall	0.0
f1-score	0.0
support	30.0
SamplingAttack	
overall_accuracy	0.96666666666667
overall_precision	0.97000000000001
overall_recall	0.96666666666667
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10
1	
precision	0.9
recall	1.0
f1-score	0.9473684210526316
support	9
2	
precision	1.0

recall	0.90909090909091
f1-score	0.9523809523809523
support	11
accuracy	0.96666666666666
macro avg	
precision	0.96666666666666
recall	0.96969696969697
f1-score	0.9665831244778613
support	30
weighted avg	
precision	0.97000000000001
recall	0.96666666666667
f1-score	0.966750208855472
support	30
FeatureSqueezing	
overall_accuracy	0.9
overall_precision	0.925
overall_recall	0.9
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10
1	
precision	0.75
recall	1.0
f1-score	0.8571428571428571
support	9
2	
precision	1.0
recall	0.72727272727273
f1-score	0.8421052631578948
support	11
accuracy	0.9

macro avg	
precision	0.91666666666666
recall	0.90909090909092
f1-score	0.899749373433584
support	30
weighted avg	
precision	0.925
recall	0.9
f1-score	0.899248120300752
support	30
ClassLabels	
overall_accuracy	0.33333333333333
overall_precision	0.11111111111111
overall_recall	0.33333333333333
metrics_per_class	
0	
precision	0.33333333333333
recall	1.0
f1-score	0.5
support	10
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11
accuracy	0.33333333333333
macro avg	
precision	0.11111111111111
recall	0.33333333333333
f1-score	0.166666666666666

support	30
weighted avg	
precision	0.11111111111111
recall	0.33333333333333
f1-score	0.1666666666666666666666666666666666666
support	30
('FeatureSqueezing', 'ZooAttack')	
overall_accuracy	0.73333333333333
overall_precision	0.73333333333333
overall_recall	0.73333333333333
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10
1	
precision	0.5555555555556
recall	0.5555555555556
f1-score	0.5555555555556
support	9
2	
precision	0.63636363636364
recall	0.63636363636364
f1-score	0.63636363636364
support	11
accuracy	0.73333333333333
macro avg	
precision	0.7306397306397306
recall	0.7306397306397306
f1-score	0.7306397306397306
support	30
weighted avg	
precision	0.73333333333333
recall	0.73333333333333

f1-score	0.73333333333333
support	30
('FeatureSqueezing', 'HopSkipJump')	
overall_accuracy	0.26666666666666
overall_precision	0.22236024844720498
overall_recall	0.26666666666666
metrics_per_class	
0	
precision	0.0
recall	0.0
f1-score	0.0
support	10
1	
precision	0.21739130434782608
recall	0.5555555555556
f1-score	0.3125
support	9
2	
precision	0.42857142857142855
recall	0.27272727272727
f1-score	0.333333333333326
support	11
accuracy	0.26666666666666
macro avg	
precision	0.2153209109730849
recall	0.2760942760942761
f1-score	0.215277777777776
support	30
weighted avg	
precision	0.22236024844720498
recall	0.266666666666666
f1-score	0.21597222222222
support	30
('FeatureSqueezing', 'SignOPTAttack')	
overall_accuracy	0.43333333333333

overall_precision	0.64878787878787
overall_recall	0.43333333333333
metrics_per_class	
0	
precision	1.0
recall	0.3
f1-score	0.4615384615384615
support	10
1	
precision	0.31818181818182
recall	0.7777777777778
f1-score	0.45161290322580644
support	9
2	
precision	0.6
recall	0.27272727272727
f1-score	0.37499999999999
support	11
accuracy	0.43333333333333
macro avg	
precision	0.63939393939393
recall	0.45016835016835016
f1-score	0.429383788254756
support	30
weighted avg	
precision	0.64878787878787
recall	0.43333333333333
f1-score	0.42683002481389576
support	30
('FeatureSqueezing', 'BoundaryAttack')	
overall_accuracy	0.3
overall_precision	0.2641025641025641
overall_recall	0.3
metrics_per_class	
0	

precision	0.0
recall	0.0
f1-score	0.0
support	10
1	
precision	0.2692307692307692
recall	0.777777777778
f1-score	0.3999999999999
support	9
2	
precision	0.5
recall	0.1818181818182
f1-score	0.26666666666666
support	11
accuracy	0.3
macro avg	
precision	0.2564102564
recall	0.31986531986531985
f1-score	0.222222222222
support	30
weighted avg	
precision	0.2641025641025641
recall	0.3
f1-score	0.21777777777776
support	30
('FeatureSqueezing', 'SamplingAttack')	
overall_accuracy	0.9
overall_precision	0.925
overall_recall	0.9
metrics_per_class	
0	
precision	1.0
recall	1.0
f1-score	1.0
support	10

1	
precision	0.75
recall	1.0
f1-score	0.8571428571428571
support	9
2	
precision	1.0
recall	0.72727272727273
f1-score	0.8421052631578948
support	11
accuracy	0.9
macro avg	
precision	0.9166666666666
recall	0.90909090909092
f1-score	0.899749373433584
support	30
weighted avg	
precision	0.925
recall	0.9
f1-score	0.899248120300752
support	30
('ClassLabels', 'ZooAttack')	
overall_accuracy	0.333333333333333
overall_precision	0.1111111111111
overall_recall	0.333333333333333
metrics_per_class	
0	
precision	0.333333333333333
recall	1.0
f1-score	0.5
support	10
1	
precision	0.0
recall	0.0
f1-score	0.0

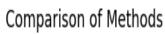
support	9
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11
accuracy	0.33333333333333
macro avg	
precision	0.1111111111111
recall	0.33333333333333
f1-score	0.166666666666666
support	30
weighted avg	
precision	0.11111111111111
recall	0.333333333333333
f1-score	0.166666666666666
support	30
('ClassLabels', 'HopSkipJump')	
overall_accuracy	0.3
overall_precision	0.09
overall_recall	0.3
metrics_per_class	
0	
precision	0.0
recall	0.0
f1-score	0.0
support	10
1	
precision	0.3
recall	1.0
f1-score	0.4615384615384615
support	9
2	
precision	0.0
recall	0.0

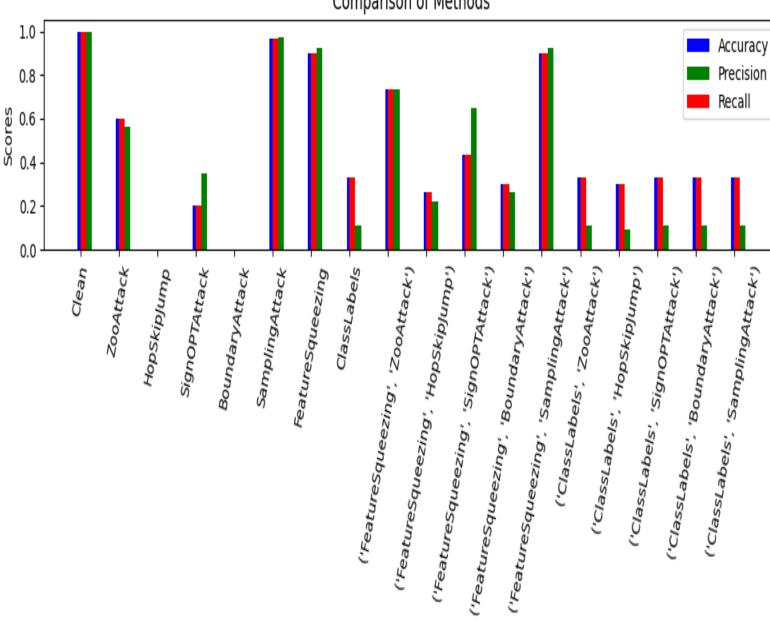
f1-score	0.0
support	11
accuracy	0.3
macro avg	
precision	0.0999999999999999999999999999999999999
recall	0.33333333333333
f1-score	0.15384615384
support	30
weighted avg	
precision	0.09
recall	0.3
f1-score	0.13846153846153844
support	30
('ClassLabels', 'SignOPTAttack')	
overall_accuracy	0.33333333333333
overall_precision	0.11111111111111
overall_recall	0.33333333333333
metrics_per_class	
0	
precision	0.33333333333333
recall	1.0
f1-score	0.5
support	10
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11
accuracy	0.33333333333333
macro avg	

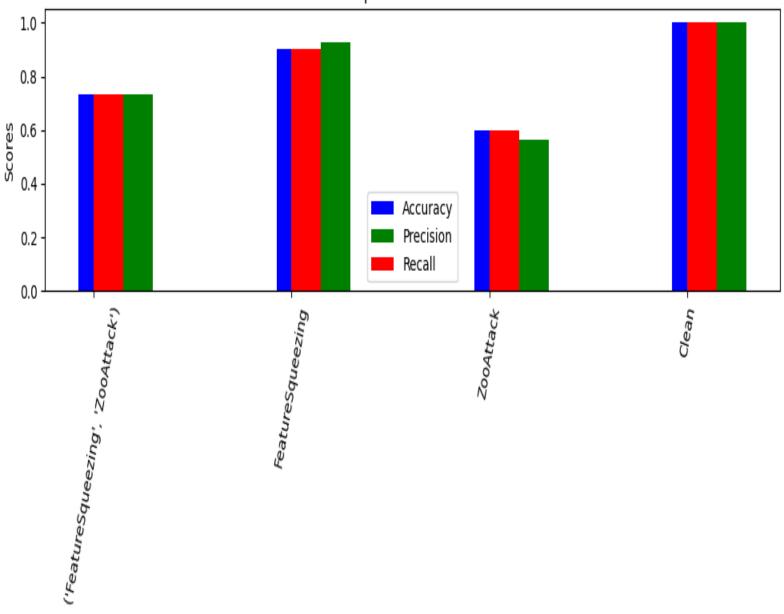
precision	0.1111111111111
recall	0.33333333333333
f1-score	0.166666666666666
support	30
weighted avg	
precision	0.1111111111111
recall	0.33333333333333
f1-score	0.166666666666666
support	30
('ClassLabels', 'BoundaryAttack')	
overall_accuracy	0.33333333333333
overall_precision	0.11111111111111
overall_recall	0.33333333333333
metrics_per_class	
0	
precision	0.33333333333333
recall	1.0
f1-score	0.5
support	10
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11
accuracy	0.33333333333333
macro avg	
precision	0.1111111111111
recall	0.33333333333333
f1-score	0.16666666666666
support	30

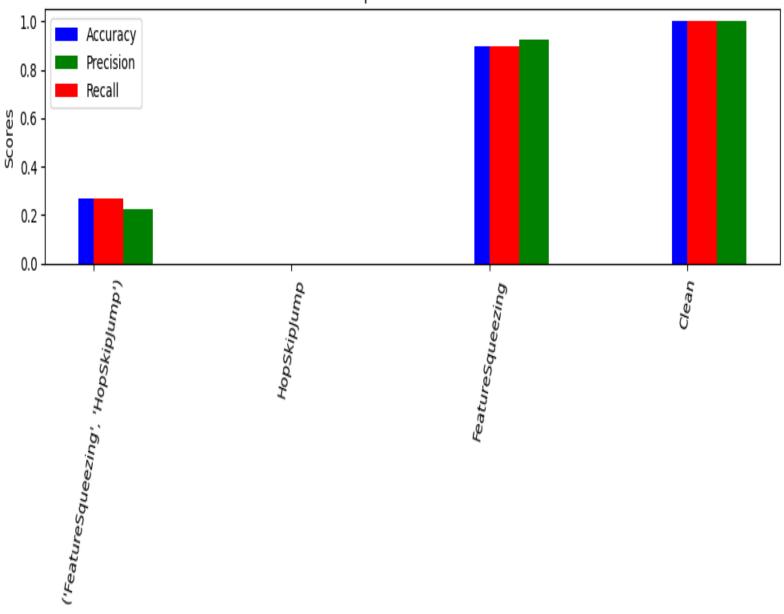
weighted avg	
precision	0.1111111111111
recall	0.3333333333333
f1-score	0.1666666666666666666666666666666666666
support	30
('ClassLabels', 'SamplingAttack')	
overall_accuracy	0.33333333333333
overall_precision	0.1111111111111
overall_recall	0.33333333333333
metrics_per_class	
0	
precision	0.33333333333333
recall	1.0
f1-score	0.5
support	10
1	
precision	0.0
recall	0.0
f1-score	0.0
support	9
2	
precision	0.0
recall	0.0
f1-score	0.0
support	11
accuracy	0.33333333333333
macro avg	
precision	0.11111111111111
recall	0.33333333333333
f1-score	0.166666666666666
support	30
weighted avg	
precision	0.11111111111111
recall	0.3333333333333
f1-score	0.1666666666666666

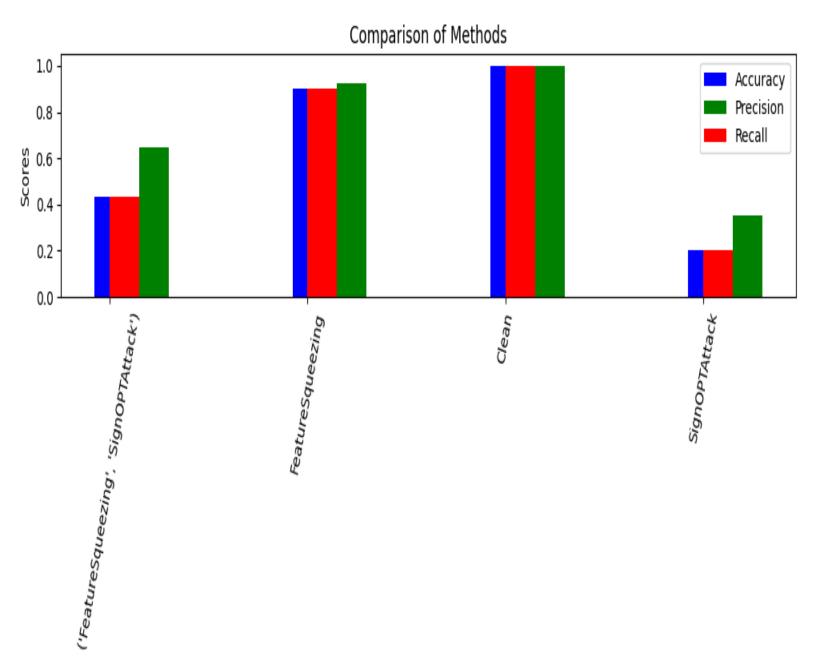
support 30

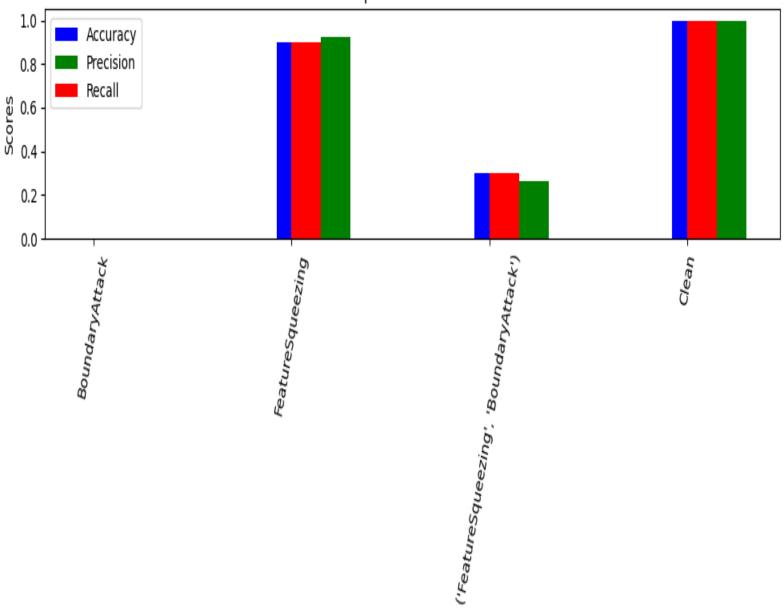


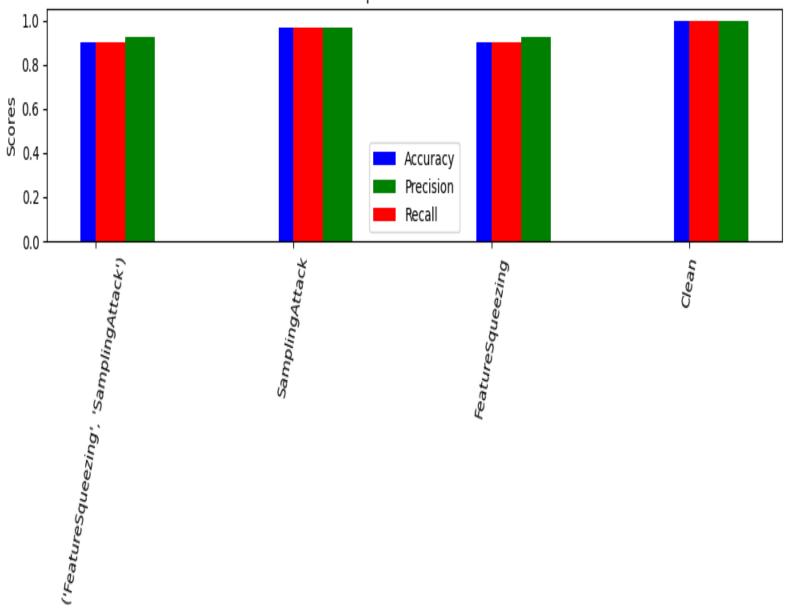


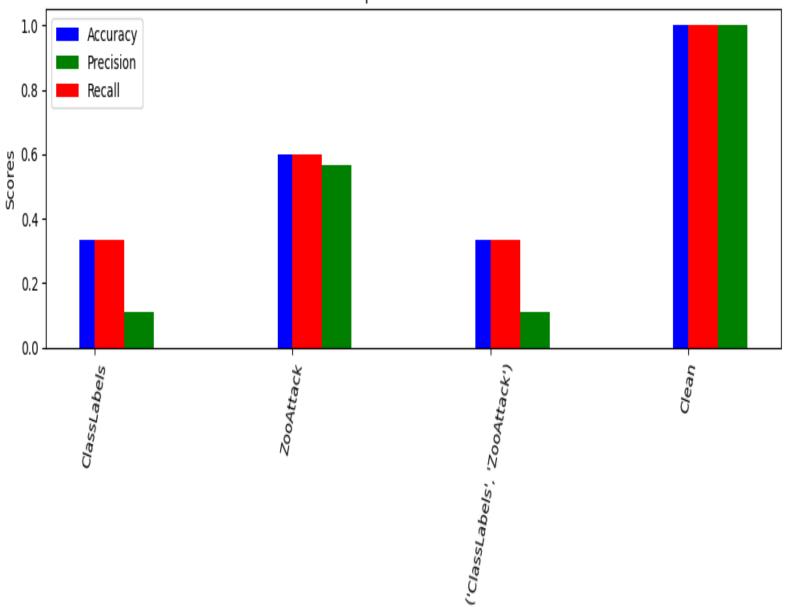


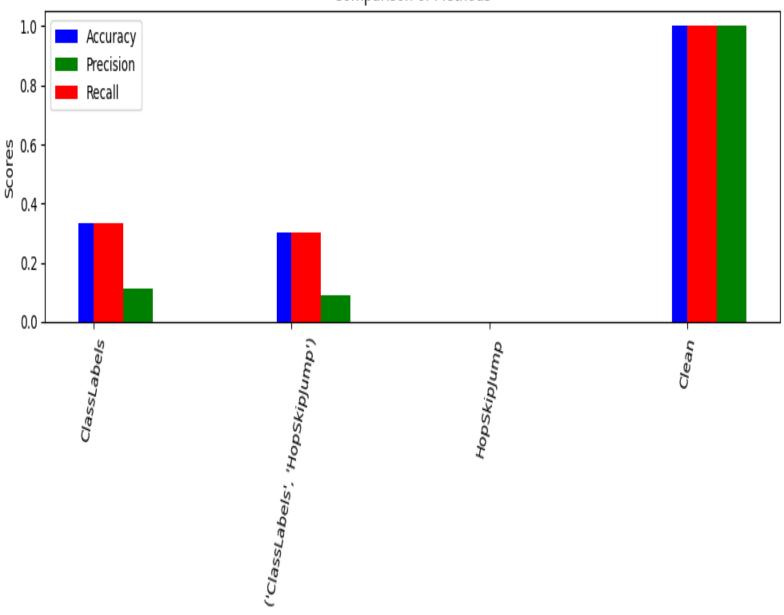


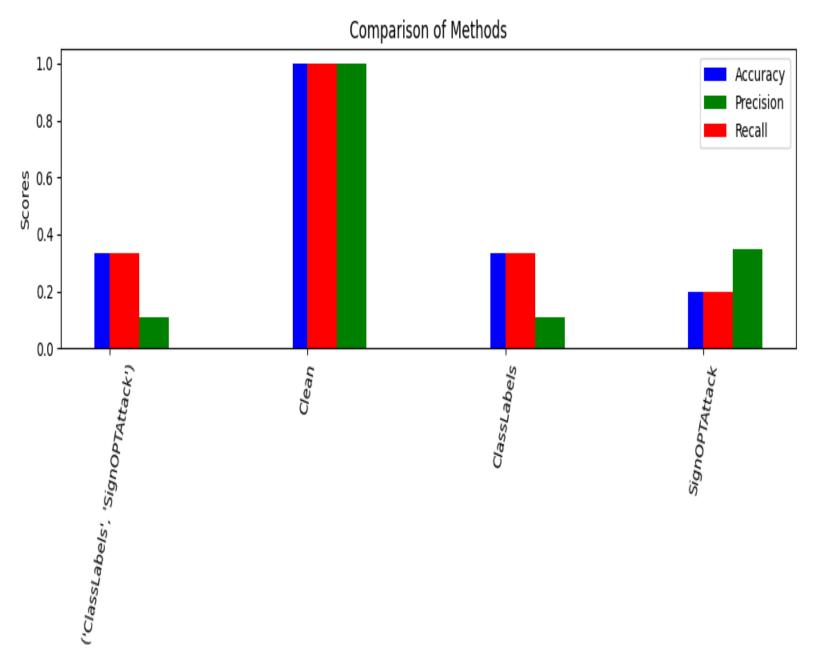


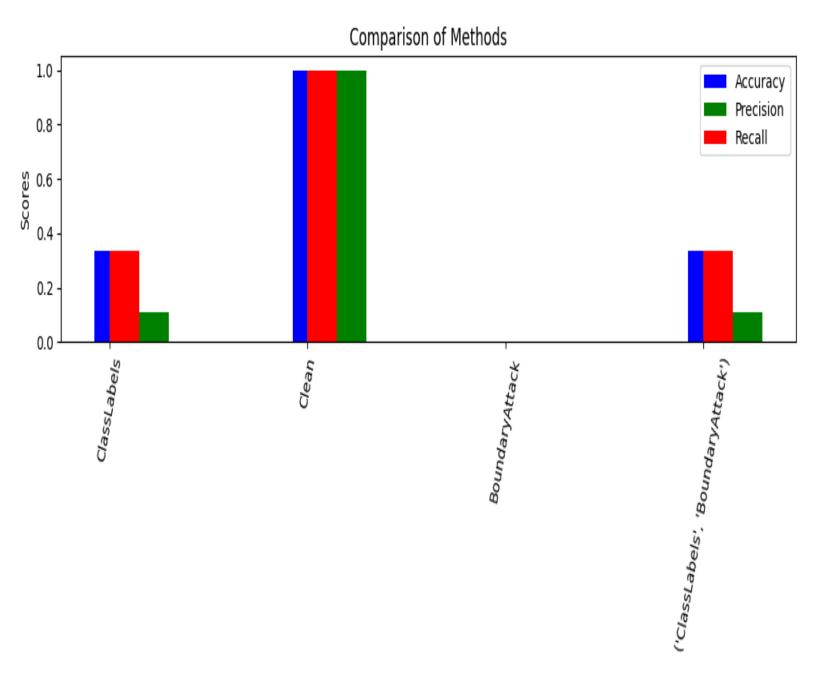


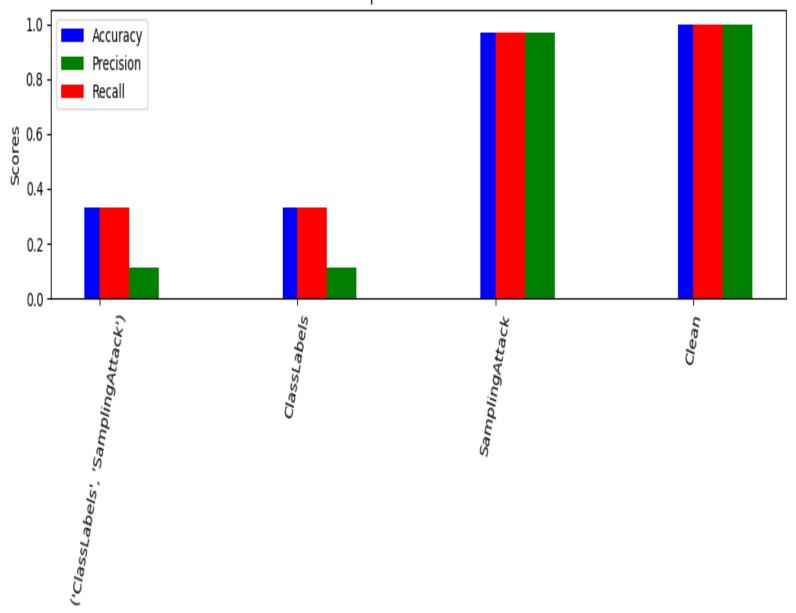












Recommendations:

According to the Results of the automation:

The reccomended action is to use FeatureSqueezin against ZooAttack

The reccomended action is to use FeatureSqueezin against ZooAttack

The first reccomended action is to useClassLabels against HopSkipJump

The second reccomended action is to use FeatureSqueezing against HopSkipJump

The reccomended action is to use FeatureSqueezin against ZooAttack The first reccomended action is to useClassLabels against HopSkipJump The second reccomended action is to use FeatureSqueezing against HopSkipJump The first reccomended action is to useFeatureSqueezing against SignOPTAttack The second reccomended action is to use ClassLabels against SignOPTAttack The reccomended action is to use FeatureSqueezin against ZooAttack The first reccomended action is to useClassLabels against HopSkipJump The second reccomended action is to use FeatureSqueezing against HopSkipJump The first reccomended action is to useFeatureSqueezing against SignOPTAttack The second reccomended action is to use ClassLabels against SignOPTAttack The first reccomended action is to useClassLabels against BoundaryAttack The second reccomended action is to use FeatureSqueezing against BoundaryAttack The reccomended action is to use FeatureSqueezin against ZooAttack The first reccomended action is to useClassLabels against HopSkipJump The second reccomended action is to use FeatureSqueezing against HopSkipJump The first reccomended action is to useFeatureSqueezing against SignOPTAttack The second reccomended action is to use ClassLabels against SignOPTAttack The first reccomended action is to useClassLabels against BoundaryAttack The second reccomended action is to use FeatureSqueezing against BoundaryAttack The first reccomended action is to useFeatureSqueezing against SamplingAttack The second reccomended action is to use ClassLabels against SamplingAttack