

Classification Results Report

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Multi-Class, M

Accuracy: 0.9975414737867948
Precision: 0.9975421481937432
Recall: 0.9975414737867948
F1-Score: 0.9975411992490907

Confusion Matrix:
[19332, 73]
[38, 25706]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Multi-Class, M

Accuracy: 0.9999335533455891
Precision: 0.9999335547678885
Recall: 0.9999335533455891
F1-Score: 0.9999335535563415

Confusion Matrix:
[19404, 1]
[2, 25742]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Resampled M

Accuracy: 0.9967253376995497
Precision: 0.9967309653164125
Recall: 0.9967253376995497
F1-Score: 0.9967253096904023

Confusion Matrix:
[19381, 97]
[31, 19579]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Resampled M

Accuracy: 0.9998465002046664
Precision: 0.9998465212487072
Recall: 0.9998465002046664
F1-Score: 0.9998465002561057

Confusion Matrix:
[19477, 1]
[5, 19605]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Binary Classifi

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[45149]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-DDos.pcap_ISCX.csv, Task: Binary Classification

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[45149]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan.pcap_ISCX.csv, Task: Multi-Class

Accuracy: 0.9978008168394596
Precision: 0.9978013730547796
Recall: 0.9978008168394596
F1-Score: 0.9978009178093274

Confusion Matrix:
[25481, 51]
[75, 31687]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan.pcap_ISCX.csv, Task: Multi-Class

Accuracy: 0.9998952769923553
Precision: 0.9998952802625609
Recall: 0.9998952769923553
F1-Score: 0.9998952773944836

Confusion Matrix:
[25530, 2]
[4, 31758]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan.pcap_ISCX.csv, Task: Resampling

Accuracy: 0.9605018131921984
Precision: 0.9633551145123919
Recall: 0.9605018131921984
F1-Score: 0.9604385386452606

Confusion Matrix:
[23461, 2009]
[6, 25539]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan.pcap_ISCX.csv, Task: Resampling

Accuracy: 0.999843183377438
Precision: 0.9998432110884181
Recall: 0.999843183377438
F1-Score: 0.9998431834023838

Confusion Matrix:
[25469, 1]
[7, 25538]

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan.pcap_ISCX.csv, Task: Binary Classification

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

File: MachineLearningCVE\Friday-WorkingHours-Afternoon-PortScan_ISCX.csv, Task: Binary Classification, Model: RandomForestClassifier

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[57294]

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Multi-Class, Model: RandomForestClassifier

Accuracy: 0.985473866045489
Precision: 0.9920426849967918
Recall: 0.985473866045489
F1-Score: 0.9880018906951167

Confusion Matrix:
[37351, 482]
[73, 301]

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Multi-Class, Model: RandomForestClassifier

Accuracy: 0.9994503624990185
Precision: 0.9994467452334206
Recall: 0.9994503624990185
F1-Score: 0.9994455489670756

Confusion Matrix:
[37829, 4]
[17, 357]

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: RandomForestClassifier

Accuracy: 0.9695044472681067
Precision: 0.9701667721023466
Recall: 0.9695044472681067
F1-Score: 0.969528620957148

Confusion Matrix:
[399, 19]
[5, 364]

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: RandomForestClassifier

Accuracy: 0.9911054637865311
Precision: 0.9911100591692587
Recall: 0.9911054637865311
F1-Score: 0.9911061556710784

Confusion Matrix:
[414, 4]
[3, 366]

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Binary Classification, Model: RandomForestClassifier

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

File: MachineLearningCVE\Friday-WorkingHours-Morning.pcap_ISCX.csv, Task: Binary Classification,

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[38207]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Multi-Class, Model: MLP

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Multi-Class, Model: RF

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: MLP

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: RF

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Binary Classification, Model: MLP

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Monday-WorkingHours.pcap_ISCX.csv, Task: Binary Classification, Model:

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[105984]

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Mult

Accuracy: 0.9998787269797821
Precision: 0.9997574686667096
Recall: 0.9998787269797821
F1-Score: 0.9998180941466824

Confusion Matrix:
[57714, 0]
[7, 0]

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Mult

Accuracy: 0.99991337641413
Precision: 0.9999003864782491
Recall: 0.99991337641413
F1-Score: 0.9999015652326201

Confusion Matrix:
[57713, 1]
[4, 3]

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Resa

Accuracy: 0.9333333333333333
Precision: 0.9444444444444445
Recall: 0.9333333333333333
F1-Score: 0.934609250398724

Confusion Matrix:
[9, 1]
[0, 5]

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Resa

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[10, 0]
[0, 5]

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Bina

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

File: MachineLearningCVE\Thursday-WorkingHours-Afternoon-Infiltration.pcap_ISCX.csv, Task: Bina

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[57721]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Multi-

Accuracy: 0.9871162763397312
Precision: 0.985242880003988
Recall: 0.9871162763397312
F1-Score: 0.9816242574906566

Confusion Matrix:
[33605, 5, 0, 0]
[289, 27, 0, 0]
[4, 1, 0, 0]
[138, 2, 0, 3]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Multi-

Accuracy: 0.9953630333978987
Precision: 0.9948707164663408
Recall: 0.9953630333978987
F1-Score: 0.9950175205987878

Confusion Matrix:
[33610, 0, 0, 0]
[6, 259, 0, 51]
[2, 1, 2, 0]
[10, 88, 0, 45]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Resa

Accuracy: 0.5882352941176471
Precision: 0.5
Recall: 0.5882352941176471
F1-Score: 0.5294117647058824

Confusion Matrix:
[4, 0, 1, 0]
[1, 3, 0, 0]
[0, 1, 3, 0]
[0, 4, 0, 0]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Resa

Accuracy: 0.7647058823529411
Precision: 0.8274509803921568
Recall: 0.7647058823529411
F1-Score: 0.7633986928104575

Confusion Matrix:
[4, 0, 1, 0]
[0, 3, 1, 0]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Binary

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[34074]

File: MachineLearningCVE\Thursday-WorkingHours-Morning-WebAttacks.pcap_ISCX.csv, Task: Binary

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:
[34074]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Multi-Class, Model: MLP

Accuracy: 0.9819358166446144
Precision: 0.9646137494958321
Recall: 0.9819358166446144
F1-Score: 0.9731914687273412

Confusion Matrix:
[86408, 0, 3]
[1573, 0, 1]
[34, 0, 1163]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Multi-Class, Model: RF

Accuracy: 0.9999663609248504
Precision: 0.9999663620926845
Recall: 0.9999663609248504
F1-Score: 0.999966350059833

Confusion Matrix:
[86411, 0, 0]
[1, 1573, 0]
[2, 0, 1195]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: MLP

Accuracy: 0.9918055948007912
Precision: 0.9918230065355395
Recall: 0.9918055948007912
F1-Score: 0.9918071259436795

Confusion Matrix:
[1153, 1, 14]
[7, 1169, 1]
[4, 2, 1188]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, Model: MLP

Accuracy: 0.9997174343034756
Precision: 0.9997176760192125
Recall: 0.9997174343034756
F1-Score: 0.9997174355698099

Confusion Matrix:

[1168, 0, 0]
[0, 1177, 0]
[1, 0, 1193]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Binary Classification, Model: MLP

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:

[89182]

File: MachineLearningCVE\Tuesday-WorkingHours.pcap_ISCX.csv, Task: Binary Classification, Model: RF

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0

Confusion Matrix:

[89182]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Multi-Class, Model: MLP

Accuracy: 0.7514237662497023
Precision: 0.7996311923598778
Recall: 0.7514237662497023
F1-Score: 0.7043738738595584

Confusion Matrix:

[88004, 0, 159, 0, 3, 4]
[2014, 0, 3, 0, 0, 0]
[30093, 0, 16054, 0, 0, 0]
[1046, 0, 5, 39, 0, 0]
[1111, 0, 0, 0, 3, 0]
[0, 0, 0, 0, 0, 3]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Multi-Class, Model: RF

Accuracy: 0.9994081174525953
Precision: 0.9994081694412291
Recall: 0.9994081174525953
F1-Score: 0.9994080604155567

Confusion Matrix:

[88133, 0, 36, 1, 0, 0]
[3, 2010, 4, 0, 0, 0]
[18, 5, 46124, 0, 0, 0]
[1, 0, 0, 1081, 8, 0]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, M

Accuracy: 0.35714285714285715
Precision: 0.2857142857142857
Recall: 0.35714285714285715
F1-Score: 0.3095238095238095

Confusion Matrix:
[1, 0, 0, 2, 0, 0]
[2, 0, 1, 0, 0, 0]
[0, 0, 1, 0, 0, 0]
[1, 0, 0, 0, 1, 0]
[2, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 3]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Resampled Multi-Class, M

Accuracy: 0.7857142857142857
Precision: 0.7714285714285715
Recall: 0.7857142857142857
F1-Score: 0.753061224489796

Confusion Matrix:
[3, 0, 0, 0, 0, 0]
[0, 2, 0, 0, 1, 0]
[0, 0, 1, 0, 0, 0]
[0, 0, 0, 0, 2, 0]
[0, 0, 0, 0, 2, 0]
[0, 0, 0, 0, 0, 3]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Binary Classification, Mo

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0
Confusion Matrix:
[138541]

File: MachineLearningCVE\Wednesday-workingHours.pcap_ISCX.csv, Task: Binary Classification, Mo

Accuracy: 1.0
Precision: 1.0
Recall: 1.0
F1-Score: 1.0
Confusion Matrix:
[138541]