

## Bi-LSTM-CNN

Class	Accuracy	Precision	Recall	F1 Score
Benign	97.99%	99.03%	98.47%	98.75%
Bot	99.93%	0.00%	0.00%	0.00%
DDos	99.91%	99.81%	98.26%	99.03%
Dos GoldenEye	99.94%	96.47%	88.31%	92.21%
Dos Hulk	99.26%	93.79%	97.39%	95.56%
DoS Slowhttptest	99.95%	86.06%	91.45%	88.67%
DoS Slowloris	99.96%	97.69%	80.40%	88.20%
FTP-Patator	99.97%	92.14%	97.84%	94.90%
Heartbleed	100.00%	0.00%	0.00%	0.00%
Infiltration	100.00%	0.00%	0.00%	0.00%
PortScan	99.10%	89.36%	95.29%	92.23%
SSH-Patator	99.96%	86.66%	97.64%	91.82%
Web Attack: Brute Force	99.95%	100.00%	3.15%	6.12%
Web Attack: Sql Injection	100.00%	0.00%	0.00%	0.00%
Web Attack: XSS	99.97%	0.00%	0.00%	0.00%

## KNN

Class	Accuracy	Precision	Recall	F1 Score
0 (Benign)	99.44%	99.78%	99.52%	99.65%
1 (Bot)	99.95%	71.56%	59.01%	64.68%
2 (DDos)	99.99%	99.92%	99.91%	99.91%
3 (Dos GoldenEye)	99.99%	97.20%	98.86%	98.02%
4 (Dos Hulk)	99.95%	99.68%	99.72%	99.70%
5 (DoS Slowhttptest)	99.99%	98.24%	98.41%	98.33%
6 (DoS Slowloris)	99.99%	98.62%	98.88%	98.75%
7 (FTP-Patator)	100.00%	99.81%	99.32%	99.57%
8 (Heartbleed)	100.00%	100.00%	80.00%	88.89%
9 (Infiltration)	100.00%	33.33%	16.67%	22.22%
10 (PortScan)	99.58%	94.54%	98.04%	96.26%
11 (SSH-Patator)	99.99%	95.67%	98.82%	97.22%
12 (Web Attack: Brute Force)	99.97%	70.43%	76.66%	73.41%
13 (Web Attack: Sql Injection)	100.00%	0.00%	0.00%	0.00%
14 (Web Attack: XSS)	99.97%	48.42%	30.46%	37.40%

## Logistic Regression

Class	Accuracy	Precision	Recall	F1 Score
0 (Benign)	95.99%	97.73%	97.28%	97.50%
1 (Bot)	99.93%	0.00%	0.00%	0.00%
2 (DDos)	99.55%	98.96%	90.92%	94.77%
3 (Dos GoldenEye)	99.79%	84.05%	52.09%	64.32%
4 (Dos Hulk)	98.85%	91.49%	94.69%	93.07%
5 (DoS Slowhttptest)	99.88%	71.76%	62.52%	66.82%
6 (DoS Slowloris)	99.88%	95.98%	45.34%	61.58%
7 (FTP-Patator)	99.71%	48.84%	3.90%	7.22%
8 (Heartbleed)	100.00%	0.00%	0.00%	0.00%
9 (Infiltration)	100.00%	0.00%	0.00%	0.00%
10 (PortScan)	98.56%	79.84%	99.12%	88.44%
11 (SSH-Patator)	99.79%	0.00%	0.00%	0.00%
12 (Web Attack: Brute Force)	99.94%	0.00%	0.00%	0.00%
13 (Web Attack: Sql Injection)	100.00%	0.00%	0.00%	0.00%
14 (Web Attack: XSS)	99.97%	0.00%	0.00%	0.00%

## Random Forest

Class	Accuracy	Precision	Recall	F1 Score
0 (Benign)	99.80%	99.88%	99.87%	99.87%
1 (Bot)	99.96%	80.86%	60.49%	69.21%
2 (DDos)	99.99%	99.96%	99.93%	99.95%
3 (Dos GoldenEye)	99.98%	98.98%	96.82%	97.89%
4 (Dos Hulk)	99.97%	99.80%	99.82%	99.81%
5 (DoS Slowhttptest)	99.99%	98.77%	98.77%	98.77%
6 (DoS Slowloris)	99.99%	99.47%	98.10%	98.78%
7 (FTP-Patator)	100.00%	99.88%	99.75%	99.81%
8 (Heartbleed)	100.00%	100.00%	80.00%	88.89%
9 (Infiltration)	100.00%	50.00%	16.67%	25.00%
10 (PortScan)	99.89%	98.79%	99.32%	99.05%
11 (SSH-Patator)	99.99%	99.66%	98.99%	99.32%
12 (Web Attack: Brute Force)	99.97%	72.29%	79.81%	75.86%
13 (Web Attack: Sql Injection)	100.00%	50.00%	14.29%	22.22%
14 (Web Attack: XSS)	99.97%	47.17%	33.11%	38.91%