


Wavelet-Based Machine Learning Classifier

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Process and Train Model

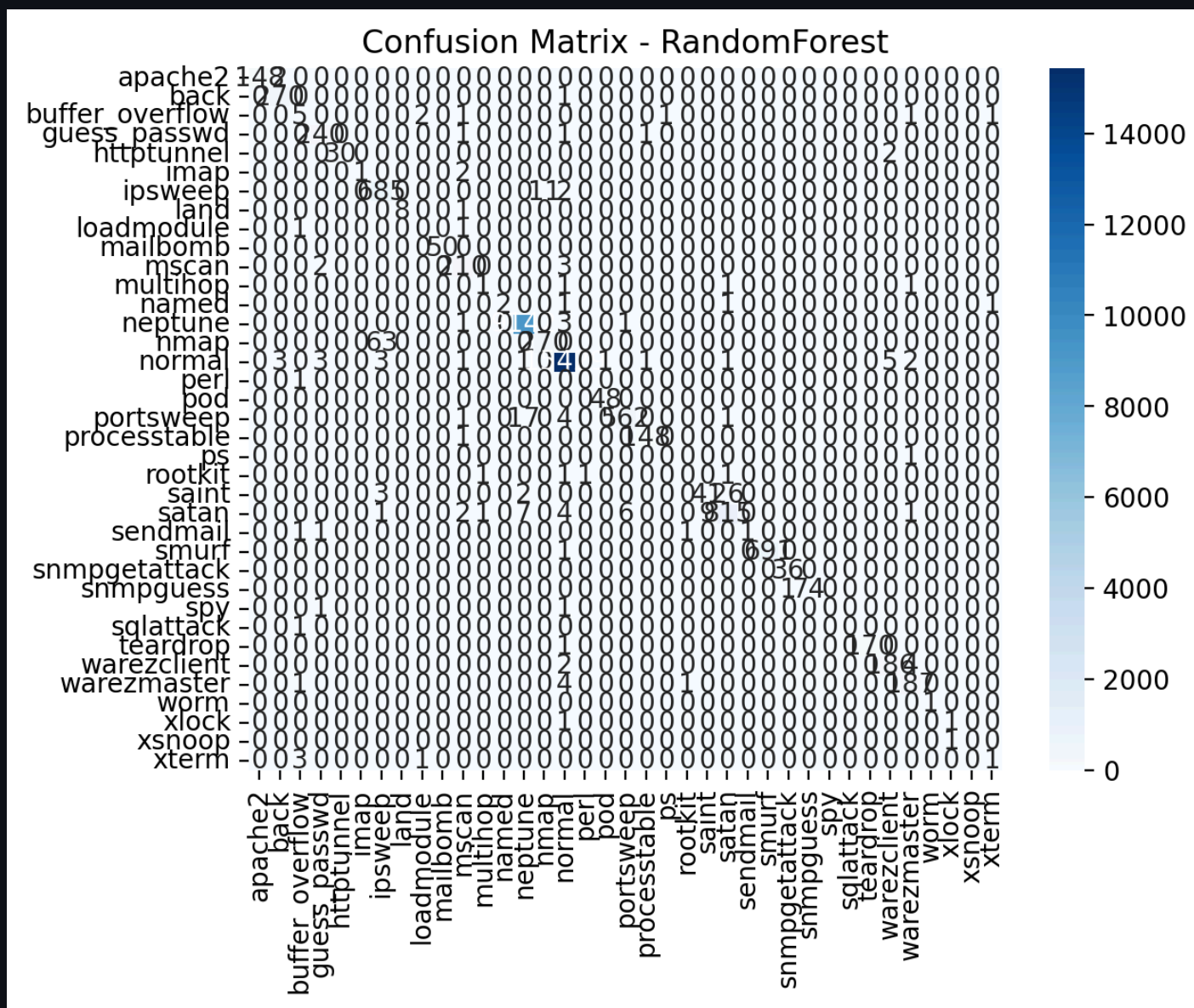
Choose Classifier

RandomForest ▼

Test Accuracy: 0.9915500

Confusion Matrix:

0	1	2	3	4	5	6	7	8	9	10	11	12	13
148	2	0	0	0	0	0	0	0	0	0	0	0	0
0	270	0	0	0	0	0	0	0	0	0	0	0	0
0	0	5	0	0	0	0	0	2	0	1	0	0	0
0	0	0	240	0	0	0	0	0	0	1	0	0	0
0	0	0	0	30	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	2	0	0	0
0	0	0	0	0	0	685	0	0	0	0	0	0	0
0	0	0	0	0	0	0	8	0	0	1	0	0	0
0	0	1	0	0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	50	0	0	0	0



Classification Report:

precision recall f1-score support

apache2	1.00	0.99	0.99	150
back	0.98	1.00	0.99	271
buffer_overflow	0.38	0.45	0.42	11
guess_passwd	0.97	0.99	0.98	243
httptunnel	1.00	0.94	0.97	32
imap	1.00	0.33	0.50	3
ipsweep	0.91	0.98	0.94	698
land	1.00	0.89	0.94	9
loadmodule	0.00	0.00	0.00	2
mailbomb	1.00	1.00	1.00	50
mscan	0.95	0.98	0.96	215
multihop	0.33	0.25	0.29	4
named	1.00	0.40	0.57	5
neptune	1.00	1.00	1.00	9147
nmap	0.96	0.81	0.88	333
normal	1.00	1.00	1.00	15450
perl	0.00	0.00	0.00	1
pod	0.98	1.00	0.99	48
portsweep	0.99	0.96	0.97	585
processtable	0.99	0.99	0.99	149
ps	0.00	0.00	0.00	1
rootkit	0.00	0.00	0.00	4
saint	0.82	0.57	0.67	72
satan	0.96	0.96	0.96	846
sendmail	1.00	0.25	0.40	4
smurf	1.00	1.00	1.00	692
snmpgetattack	0.97	1.00	0.99	36
snmpguess	1.00	0.99	0.99	75
spy	0.00	0.00	0.00	2
sqlattack	0.00	0.00	0.00	1
teardrop	1.00	0.99	1.00	171
warezclient	0.96	0.97	0.97	192
warezmaster	0.95	0.97	0.96	193
worm	1.00	1.00	1.00	1
xlock	0.50	0.50	0.50	2
xsnoop	0.00	0.00	0.00	1
xterm	0.33	0.20	0.25	5
accuracy			0.99	29704
macro avg	0.73	0.66	0.68	29704
weighted avg	0.99	0.99	0.99	29704