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==== Training Decision Tree Models for Each Dataset ====

🔷 Training on NSLKDD dataset...

✅ NSLKDD dataset limited to 100000 rows.
🎯 Decision Tree Accuracy for NSLKDD: 0.9940

	precision	recall	f1-score	support
0	0.99	0.99	0.99	14887
1	0.99	0.99	0.99	15113
accuracy			0.99	30000
macro avg	0.99	0.99	0.99	30000
weighted avg	0.99	0.99	0.99	30000

🔷 Training on UNSW_NB15 dataset...

✅ UNSW_NB15 dataset limited to 100000 rows.
🎯 Decision Tree Accuracy for UNSW_NB15: 1.0000

	precision	recall	f1-score	support
0	1.00	1.00	1.00	10805

	precision	recall	f1-score	support
1	1.00	1.00	1.00	19195
accuracy			1.00	30000
macro avg	1.00	1.00	1.00	30000
weighted avg	1.00	1.00	1.00	30000

🔷 Training on KDDCup dataset…

✅ KDDCup dataset limited to 100000 rows.

🎯 Decision Tree Accuracy for KDDCup: 0.9988

	precision	recall	f1-score	support
0	1.00	0.95	0.98	21
1	1.00	1.00	1.00	1
2	1.00	0.00	0.00	1
3	1.00	0.95	0.98	84
4	0.00	1.00	0.00	0
6	1.00	1.00	1.00	3795
7	0.77	0.88	0.82	26
8	1.00	1.00	1.00	6384
9	1.00	0.00	0.00	1
10	1.00	0.92	0.96	73
11	0.93	0.98	0.95	135
12	1.00	1.00	1.00	19466
13	1.00	1.00	1.00	1

	precision	recall	f1-score	support
14	0.60	0.75	0.67	12
accuracy			1.00	30000
macro avg	0.88	0.82	0.74	30000
weighted avg	1.00	1.00	1.00	30000

🔷 Training on CICIDS2017 dataset...

✅ CICIDS2017 dataset limited to 100000 rows.

🎯 Decision Tree Accuracy for CICIDS2017: 1.0000

	precision	recall	f1-score	support
0	1.00	1.00	1.00	30000
accuracy			1.00	30000
macro avg	1.00	1.00	1.00	30000
weighted avg	1.00	1.00	1.00	30000