⚙️ Controls

Test Split %

15

Trees

100

🛡️ AI-Based Network Intrusion Detection

286K samples | BENIGN + PortScan | 99% accuracy expected

> ✅ Loaded 286,467 samples | 79 columns

Label column: ' Label' ✓

> Using 10 verified features

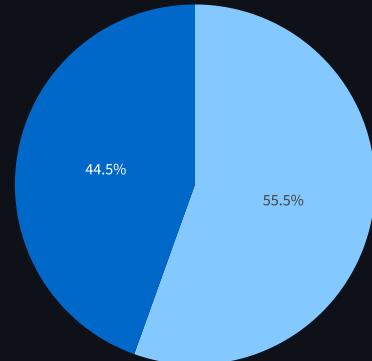| Samples	Features	PortScan %
286,467	10	55.5%

📊 Preview

	Destination Port	Flow Duration	Total Fwd Packets	Total Backward Packets	Total Length of Fwd Packets	Total Length
0	22	1266342	41	44	2664	
1	22	1319353	41	44	2664	
2	22	160	1	1	0	
3	22	1303488	41	42	2728	
4	35396	77	1	2	0	

Class Balance

44.5%   55.5%

🚀 Train Model

TRAIN PORTSCAN DETECTOR

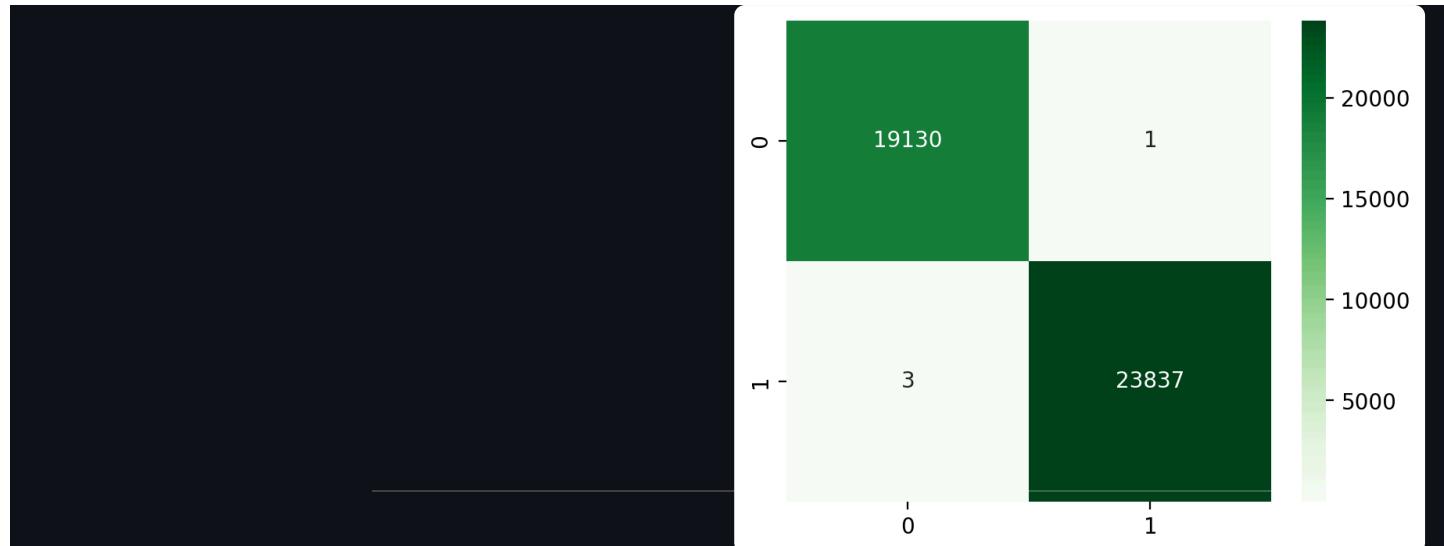> ✅ 99%+ accuracy expected!

📈 Performance

Accuracy

99.99%

PortScans Caught

23838

🎯 LIVE PortScan Detector

> 💡 **PortScan** = High `Flow Packets/s` + Many `Destination Ports`

Destination Port	Flow Duration (ms)	Total Fwd Packets	Total Bwd Packets	Flow Packets/s **(Key!)**
80 − +	5000 − +	5 − +	3 − +	10.00 − +

🔍 **DETECT NOW**

📊 Top Detection Features