ML for Cyber Security – Lab 4 Report

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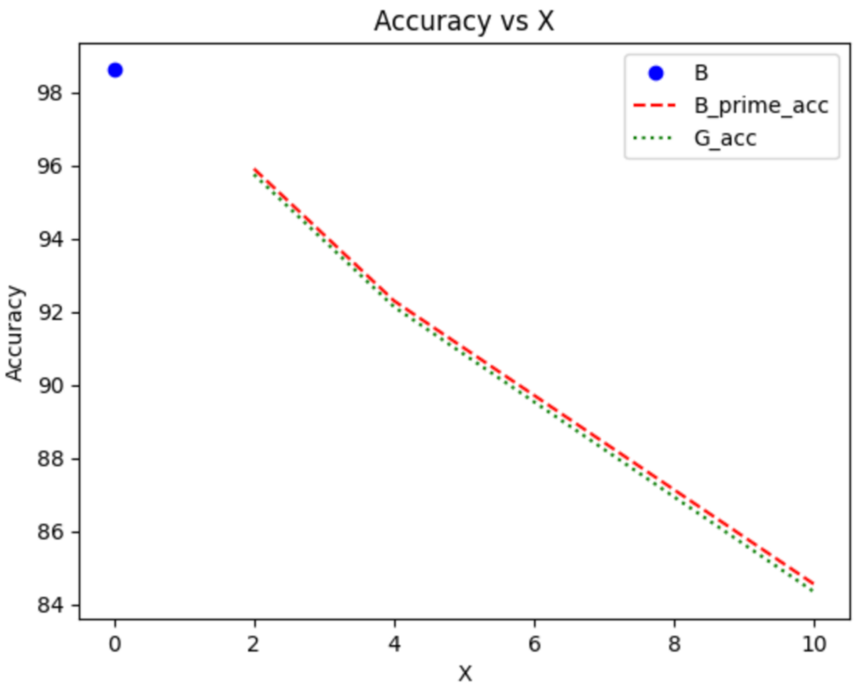
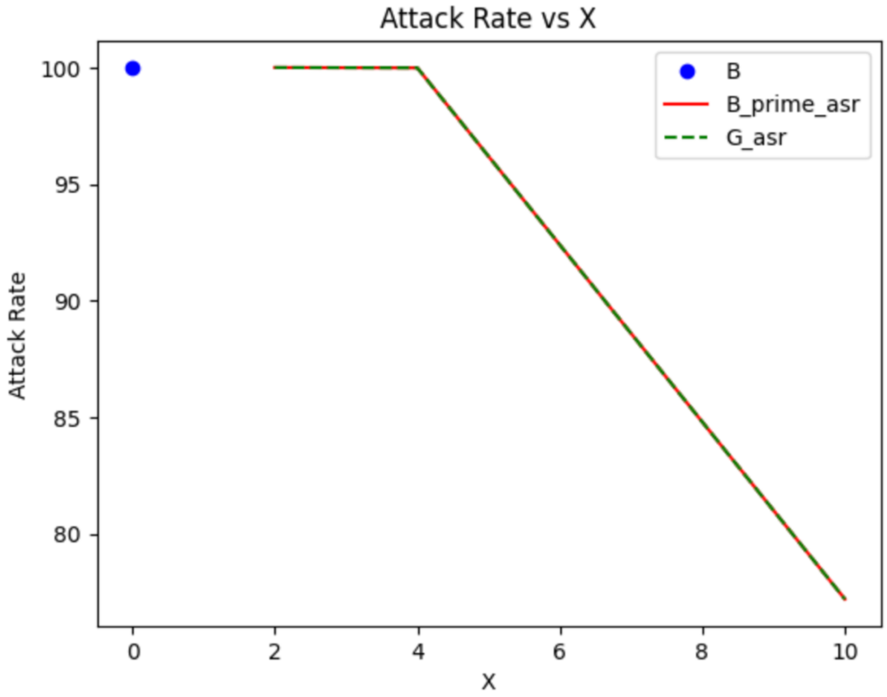
Accuracy and Attack Success Rates

Threshold (X %)	0	2		4		10	
Network Model	BadNets	B_prime	GoodNets	B_prime	GoodNets	B_prime	GoodNets
Clean Test Accuracy (%)	98.62	95.90	95.74	92.29	92.12	84.54	84.33
Attack Success Rate (%)	100	100	100	99.98	99.98	77.21	77.21

BadNets (B): Original Backdoored Model
B_Prime (B'): Network generated after pruning last pooling layer till X%
GoodNets (G): Network with N+1 output classes.




Attack Rate vs X
Attack Rate
100
95
90
85
80
X
0
2
4
6
8
10
B
B_prime_asr
G_asr