CSCI 677 Homework 6 Adversarial Attacks on Classification Networks Nikhit Mago

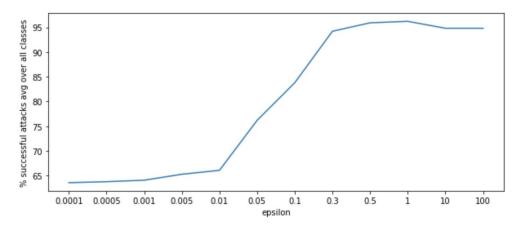
1. Introduction

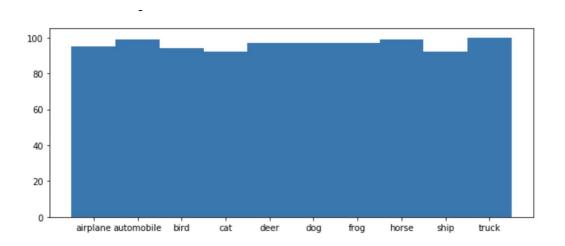
In this homework assignment, I have implemented two adversarial attacks on a LeNet-5 image classification network -- FGSM and I-FGSM using the targeted and untargeted settings.

2. Quantitative Results

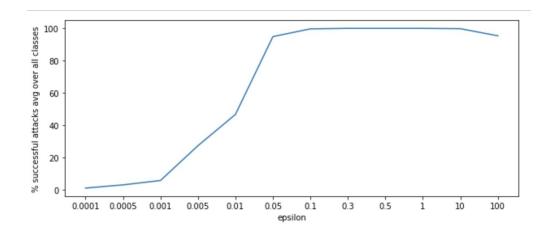
The results in this section show the Percentage of successful attacks averaged over all 10 classes. The alpha values are calculated by dividing the epsilon values by 5 and num_iterations = 5. Class accuracies (number of successful attacks) are also shown.

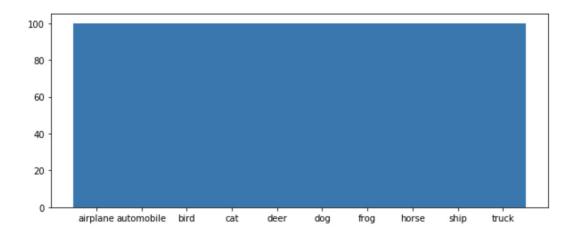
T1 X M1



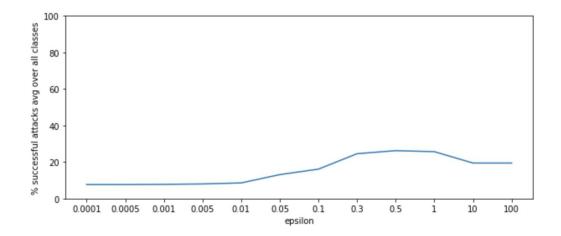


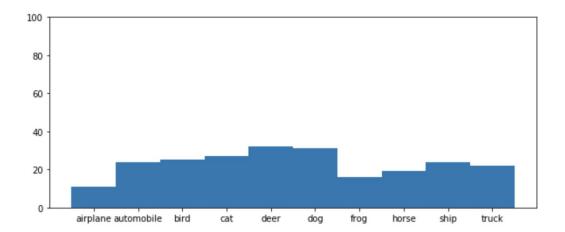
T1 X M2



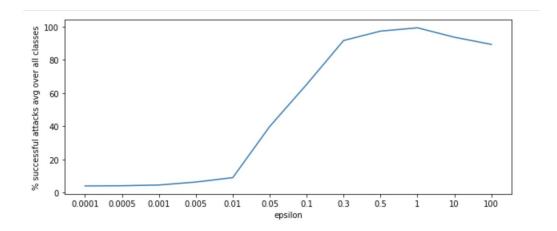


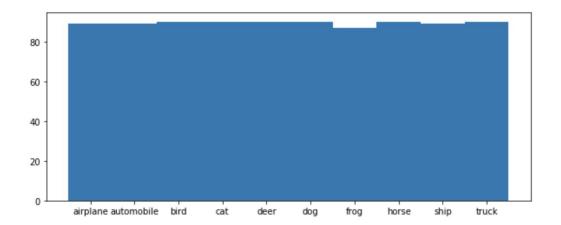
T2 X M1





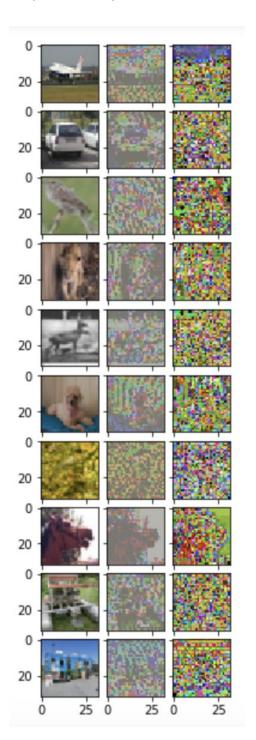
T2 X M2





3. Visual Results

T1 (For FGSM)



T2 (For I-FGSM)

