**Accuracy for Each Class (without defense) under Semantic Attack: Test Accuracy = 5848 / 10000 = 0.5848**

Accuracy for class: plane is 84.6 %

Accuracy for class: car is 56.0 %

Accuracy for class: bird is 74.6 %

Accuracy for class: cat is 63.8 %

Accuracy for class: deer is 53.3 %

Accuracy for class: dog is 44.2 %

Accuracy for class: frog is 56.6 %

Accuracy for class: horse is 59.7 %

Accuracy for class: ship is 79.2 %

Accuracy for class: truck is 58.3 %

Note: rounded to first decimal

**Accuracy for Each Class (without defense) under Noise Attack**

Epsilon: 0 Test Accuracy = 9267 / 10000 = 0.9267

Accuracy for class: plane is 100.0 %

Accuracy for class: car is 100.0 %

Accuracy for class: bird is 100.0 %

Accuracy for class: cat is 100.0 %

Accuracy for class: deer is 100.0 %

Accuracy for class: dog is 100.0 %

Accuracy for class: frog is 100.0 %

Accuracy for class: horse is 100.0 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 100.0 %

Epsilon: 0.005 Test Accuracy = 9227 / 10000 = 0.9227

Accuracy for class: plane is 99.4 %

Accuracy for class: car is 99.6 %

Accuracy for class: bird is 99.4 %

Accuracy for class: cat is 99.0 %

Accuracy for class: deer is 99.5 %

Accuracy for class: dog is 98.9 %

Accuracy for class: frog is 99.9 %

Accuracy for class: horse is 100.0 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 99.9 %

Epsilon: 0.01 Test Accuracy = 9166 / 10000 = 0.9166

Accuracy for class: plane is 98.1 %

Accuracy for class: car is 99.1 %

Accuracy for class: bird is 98.1 %

Accuracy for class: cat is 97.7 %

Accuracy for class: deer is 98.9 %

Accuracy for class: dog is 98.2 %

Accuracy for class: frog is 99.7 %

Accuracy for class: horse is 99.4 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 99.7 %

Epsilon: 0.02 Test Accuracy = 9020 / 10000 = 0.902

Accuracy for class: plane is 93.5 %

Accuracy for class: car is 98.2 %

Accuracy for class: bird is 96.9 %

Accuracy for class: cat is 95.3 %

Accuracy for class: deer is 98.2 %

Accuracy for class: dog is 95.5 %

Accuracy for class: frog is 99.4 %

Accuracy for class: horse is 97.2 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 98.7 %

Epsilon: 0.04 Test Accuracy = 8460 / 10000 = 0.846

Accuracy for class: plane is 77.1 %

Accuracy for class: car is 92.8 %

Accuracy for class: bird is 92.5 %

Accuracy for class: cat is 85.8 %

Accuracy for class: deer is 95.5 %

Accuracy for class: dog is 84.2 %

Accuracy for class: frog is 97.7 %

Accuracy for class: horse is 90.6 %

Accuracy for class: ship is 98.9 %

Accuracy for class: truck is 96.8 %

Epsilon: 0.08 Test Accuracy = 6554 / 10000 = 0.6554

Accuracy for class: plane is 45.1 %

Accuracy for class: car is 70.8 %

Accuracy for class: bird is 74.4 %

Accuracy for class: cat is 54.2 %

Accuracy for class: deer is 81.3 %

Accuracy for class: dog is 48.7 %

Accuracy for class: frog is 97.7 %

Accuracy for class: horse is 61.4 %

Accuracy for class: ship is 86.5 %

Accuracy for class: truck is 83.8 %

Epsilon: 0.16 Test Accuracy = 2815 / 10000 = 0.2815

Accuracy for class: plane is 11.1 %

Accuracy for class: car is 20.6 %

Accuracy for class: bird is 42.0 %

Accuracy for class: cat is 12.4 %

Accuracy for class: deer is 45.6 %

Accuracy for class: dog is 4.1 %

Accuracy for class: frog is 97.7 %

Accuracy for class: horse is 6.1 %

Accuracy for class: ship is 34.5 %

Accuracy for class: truck is 26.6 %

Epsilon: 0.32 Test Accuracy = 1273 / 10000 = 0.1273

Accuracy for class: plane is 0.2 %

Accuracy for class: car is 4.0 %

Accuracy for class: bird is 46.6 %

Accuracy for class: cat is 1.1 %

Accuracy for class: deer is 4.1 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 76.2 %

Accuracy for class: horse is 0.0 %

Accuracy for class: ship is 3.1 %

Accuracy for class: truck is 0.9 %

Epsilon: 0.64 Test Accuracy = 1007 / 10000 = 0.1007

Accuracy for class: plane is 0.0 %

Accuracy for class: car is 97.3 %

Accuracy for class: bird is 8.5 %

Accuracy for class: cat is 0.0 %

Accuracy for class: deer is 0.0 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 0.4 %

Accuracy for class: horse is 0.0 %

Accuracy for class: ship is 0.0 %

Accuracy for class: truck is 0.0 %

**Accuracy for Each Class (without defense) under FGSM Attack:**

Epsilon: 0 Test Accuracy = 9268 / 10000 = 0.9268

Accuracy for class: plane is 100.0 %

Accuracy for class: car is 100.0 %

Accuracy for class: bird is 100.0 %

Accuracy for class: cat is 100.0 %

Accuracy for class: deer is 100.0 %

Accuracy for class: dog is 100.0 %

Accuracy for class: frog is 100.0 %

Accuracy for class: horse is 100.0 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 100.0 %

Epsilon: 0.005 Test Accuracy = 3667 / 10000 = 0.3667

Accuracy for class: plane is 41.8 %

Accuracy for class: car is 58.4 %

Accuracy for class: bird is 32.1 %

Accuracy for class: cat is 17.0 %

Accuracy for class: deer is 21.0 %

Accuracy for class: dog is 31.2 %

Accuracy for class: frog is 30.6 %

Accuracy for class: horse is 45.4 %

Accuracy for class: ship is 61.7 %

Accuracy for class: truck is 51.7 %

Epsilon: 0.01 Test Accuracy = 1541 / 10000 = 0.1541

Accuracy for class: plane is 16.3 %

Accuracy for class: car is 25.6 %

Accuracy for class: bird is 16.9 %

Accuracy for class: cat is 4.1 %

Accuracy for class: deer is 5.4 %

Accuracy for class: dog is 9.6 %

Accuracy for class: frog is 6.3 %

Accuracy for class: horse is 13.5 %

Accuracy for class: ship is 45.3 %

Accuracy for class: truck is 20.4 %

Epsilon: 0.02 Test Accuracy = 806 / 10000 = 0.0806

Accuracy for class: plane is 5.7 %

Accuracy for class: car is 7.9 %

Accuracy for class: bird is 13.6 %

Accuracy for class: cat is 4.0 %

Accuracy for class: deer is 3.7 %

Accuracy for class: dog is 2.9 %

Accuracy for class: frog is 2.9 %

Accuracy for class: horse is 2.8 %

Accuracy for class: ship is 36.0 %

Accuracy for class: truck is 6.3 %

Epsilon: 0.04 Test Accuracy = 729 / 10000 = 0.0729

Accuracy for class: plane is 3.1 %

Accuracy for class: car is 3.0 %

Accuracy for class: bird is 12.8 %

Accuracy for class: cat is 6.9 %

Accuracy for class: deer is 8.5 %

Accuracy for class: dog is 1.1 %

Accuracy for class: frog is 14.1 %

Accuracy for class: horse is 1.1 %

Accuracy for class: ship is 24.0 %

Accuracy for class: truck is 3.5 %

Epsilon: 0.08 Test Accuracy = 816 / 10000 = 0.0816

Accuracy for class: plane is 0.8 %

Accuracy for class: car is 0.9 %

Accuracy for class: bird is 11.1 %

Accuracy for class: cat is 3.0 %

Accuracy for class: deer is 12.0 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 54.6 %

Accuracy for class: horse is 0.4 %

Accuracy for class: ship is 3.5 %

Accuracy for class: truck is 0.5 %

Epsilon: 0.16 Test Accuracy = 769 / 10000 = 0.0769

Accuracy for class: plane is 0.0 %

Accuracy for class: car is 0.2 %

Accuracy for class: bird is 14.8 %

Accuracy for class: cat is 0.4 %

Accuracy for class: deer is 1.5 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 64.2 %

Accuracy for class: horse is 0.1 %

Accuracy for class: ship is 0.1 %

Accuracy for class: truck is 0.2 %

Epsilon: 0.32 Test Accuracy = 844 / 10000 = 0.0844

Accuracy for class: plane is 0.1 %

Accuracy for class: car is 16.6 %

Accuracy for class: bird is 51.9 %

Accuracy for class: cat is 7.3 %

Accuracy for class: deer is 0.0 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 16.2 %

Accuracy for class: horse is 0.1 %

Accuracy for class: ship is 0.0 %

Accuracy for class: truck is 0.1 %

Epsilon: 0.64 Test Accuracy = 956 / 10000 = 0.0956

Accuracy for class: plane is 0.0 %

Accuracy for class: car is 98.6 %

Accuracy for class: bird is 1.3 %

Accuracy for class: cat is 0.4 %

Accuracy for class: deer is 0.0 %

Accuracy for class: dog is 0.0 %

Accuracy for class: frog is 0.0 %

Accuracy for class: horse is 0.1 %

Accuracy for class: ship is 0.0 %

Accuracy for class: truck is 0.1 %

**Accuracy for Each Class (with defense) under FGSM Attack:**

Epsilon: 0 Test Accuracy = 9127 / 10000 = 0.9127

Accuracy for class: plane is 100.0 %

Accuracy for class: car is 100.0 %

Accuracy for class: bird is 100.0 %

Accuracy for class: cat is 100.0 %

Accuracy for class: deer is 100.0 %

Accuracy for class: dog is 100.0 %

Accuracy for class: frog is 100.0 %

Accuracy for class: horse is 100.0 %

Accuracy for class: ship is 100.0 %

Accuracy for class: truck is 100.0 %

Epsilon: 0.005 Test Accuracy = 8889 / 10000 = 0.8889

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 97.2 %

Accuracy for class: cat is 94.5 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.01 Test Accuracy = 8889 / 10000 = 0.8889

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 97.2 %

Accuracy for class: cat is 94.5 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.02 Test Accuracy = 8892 / 10000 = 0.8892

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 97.2 %

Accuracy for class: cat is 94.8 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.04 Test Accuracy = 8904 / 10000 = 0.8904

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 97.3 %

Accuracy for class: cat is 95.8 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.1 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 99.0 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.08 Test Accuracy = 8913 / 10000 = 0.8913

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 99.2 %

Accuracy for class: cat is 95.2 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.16 Test Accuracy = 8914 / 10000 = 0.8914

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 98.5 %

Accuracy for class: bird is 99.9 %

Accuracy for class: cat is 94.6 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.32 Test Accuracy = 8900 / 10000 = 0.89

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 99.7 %

Accuracy for class: bird is 97.2 %

Accuracy for class: cat is 94.5 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %

Epsilon: 0.64 Test Accuracy = 8903 / 10000 = 0.8903

Accuracy for class: plane is 98.2 %

Accuracy for class: car is 100.0 %

Accuracy for class: bird is 97.2 %

Accuracy for class: cat is 94.5 %

Accuracy for class: deer is 97.8 %

Accuracy for class: dog is 96.2 %

Accuracy for class: frog is 97.0 %

Accuracy for class: horse is 98.1 %

Accuracy for class: ship is 98.8 %

Accuracy for class: truck is 97.2 %