Defense Implemented: Randomization

Randomization Approach: Combined Randomization

Example Misclassifications:

No misclassified images for stage: Clean

Attack: fgsm_pgd_attack

Dataset: MNIST Training Epochs: 10

Trained Clean Images: 54210

Test Images: 140 Accuracy: 1.00 Precision: 1.00 Recall: 1.00 F1-score: 1.00

ROC AUC score is not defined for a single class.

Number of misclassified images for No Defense Attack: 60

Attack: fgsm_pgd_attack

Dataset: MNIST
Training Epochs: 10

Adversarial Training Images: 27105

Test Images: 140 Accuracy: 0.06 Precision: 0.12 Recall: 0.10 F1-score: 0.11

ROC AUC Score: 1.00

Misclassifications:

0 -> 7:5

 $0 \rightarrow 2:17$

0 -> 5: 3

0 -> 6:20

 $0 \to 4:2$

0 -> 9: 11

0 -> 8: 2

.....

No misclassified images for stage: w/ Defense Attack

Attack: fgsm_pgd_attack

Dataset: MNIST
Training Epochs: 10

Retrained Clean and Adversarial Images: 81315

Test Images: 140 Accuracy: 1.00 Precision: 1.00 Recall: 1.00 F1-score: 1.00

ROC AUC score is not defined for a single class.
