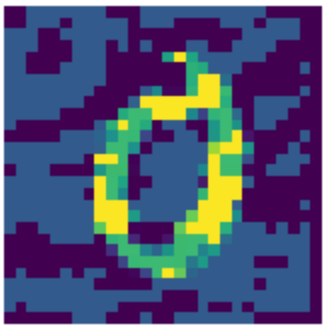
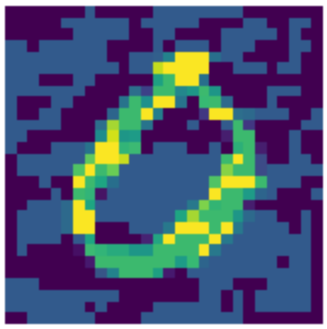
```
+----------+---------+---------------------+---------------------+
| Metric   | Clean   | No Defense Attack   | w/ Defense Attack   |
+==========+=========+=====================+=====================+
| Loss     | 0.0029  | 7.88                | 0.00848             |
+----------+---------+---------------------+---------------------+
| Accuracy | 100%    | 5%                  | 100%                |
+----------+---------+---------------------+---------------------+

Example Misclassifications:

------------------------------------------------------------
No misclassified images for stage: Clean
Attack: fgsm_pgd_attack
Dataset: MNIST
Training Epochs: 10
Trained Clean Images: 64
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: 61
Attack: fgsm_pgd_attack
Dataset: MNIST
Training Epochs: 10
Adversarial Training Images: 60
Test Images: 140
Accuracy: 0.05
Precision: 0.09
Recall: 0.08
F1-score: 0.08
ROC AUC Score: 1.00
------------------------------------------------------------

Misclassifications:
0 -> 9: 13
0 -> 6: 15
0 -> 5: 14
0 -> 2: 10
0 -> 8: 6
0 -> 4: 3
```

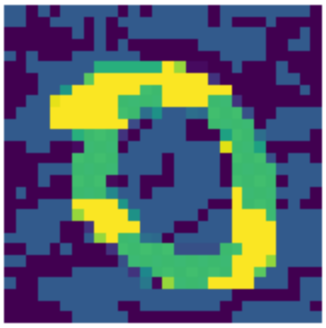
0 -> 9



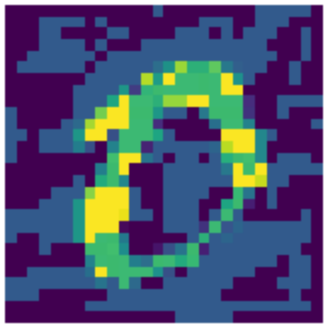
0 -> 6



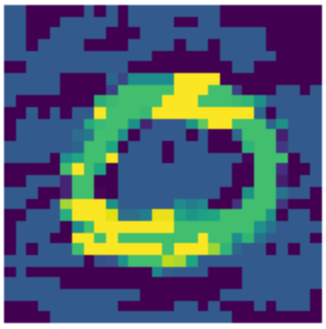
0 -> 5



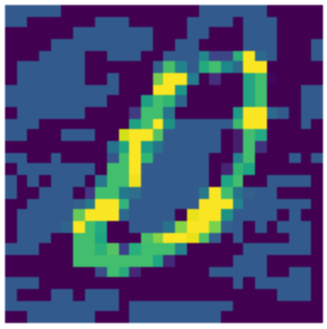
0 -> 2



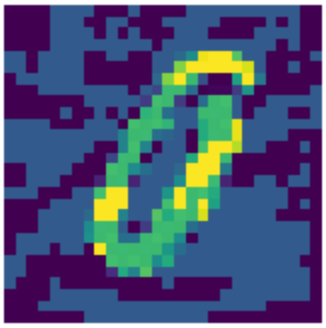
0 -> 5



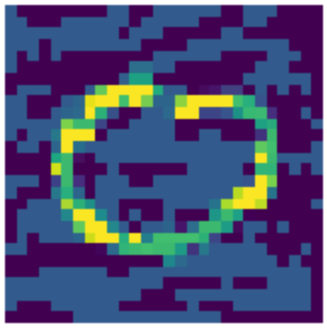
0 -> 6



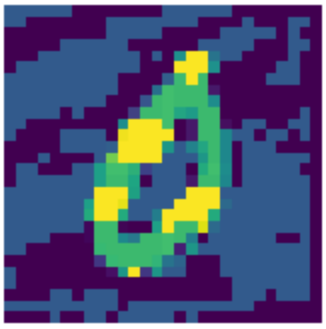
0 -> 8



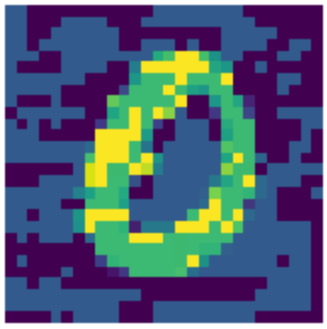
0 -> 9

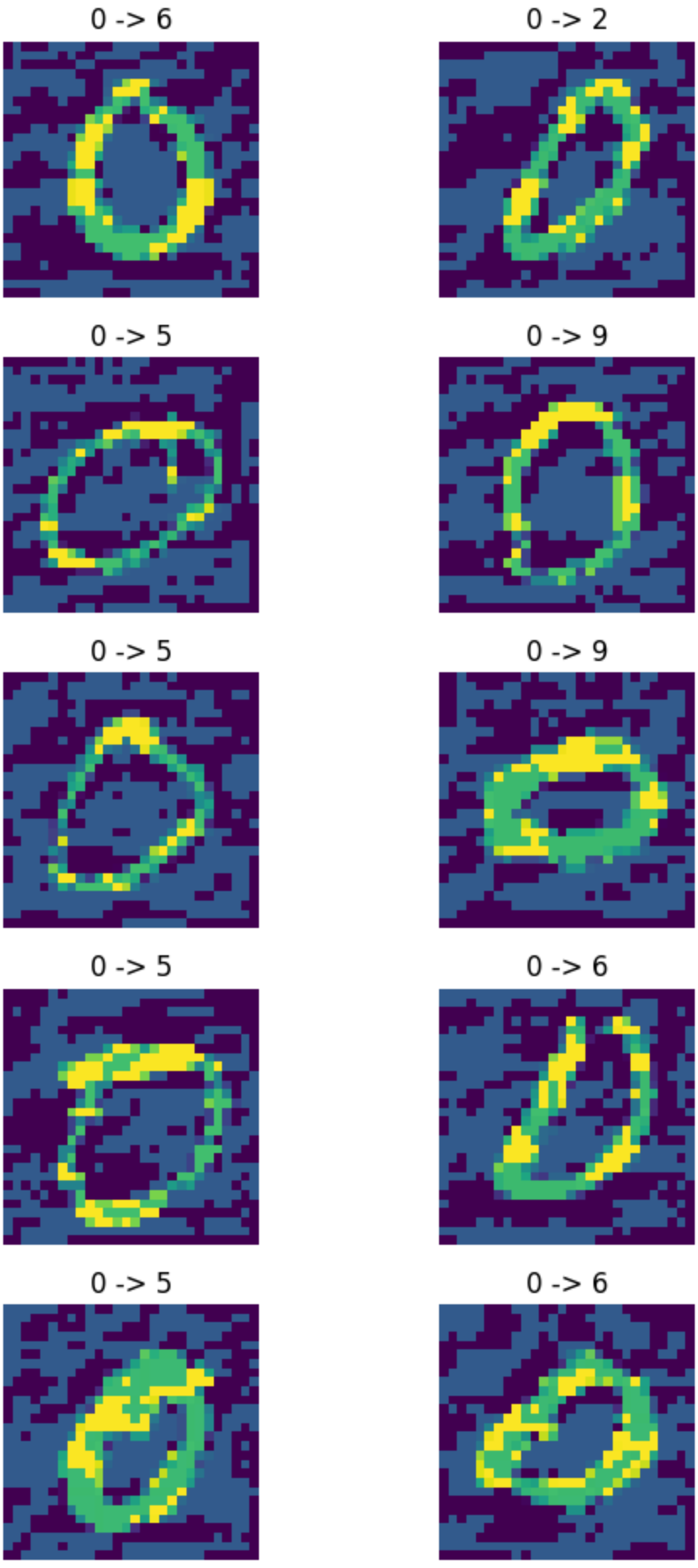


0 -> 6

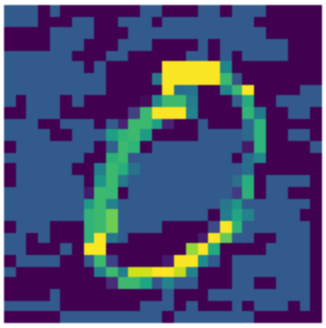


0 -> 9

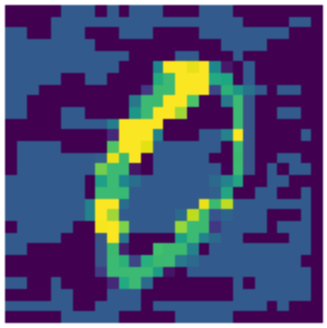



0 -> 6
0 -> 2
0 -> 5
0 -> 9
0 -> 5
0 -> 9
0 -> 5
0 -> 6
0 -> 5
0 -> 6

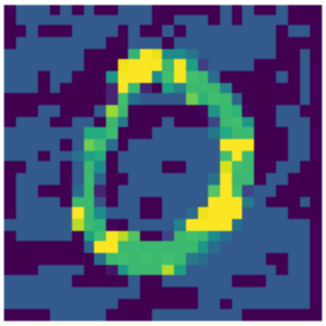
0 -> 8



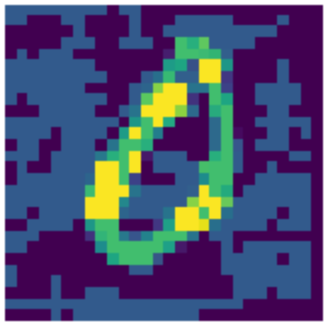
0 -> 6



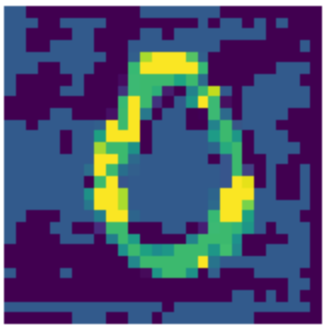
0 -> 9



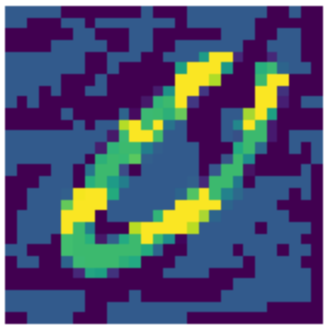
0 -> 6



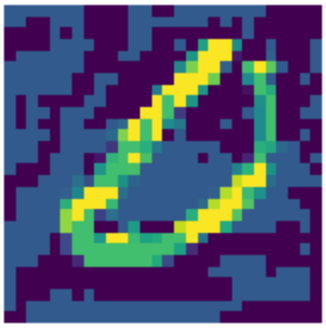
0 -> 6



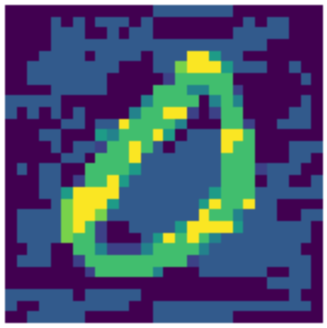
0 -> 6



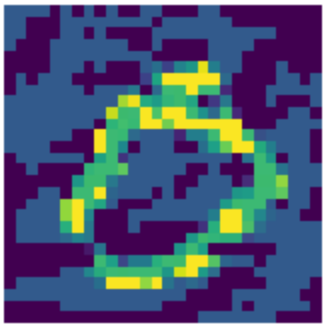
0 -> 6



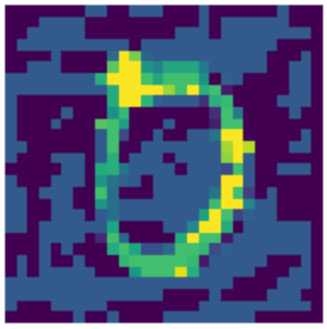
0 -> 4



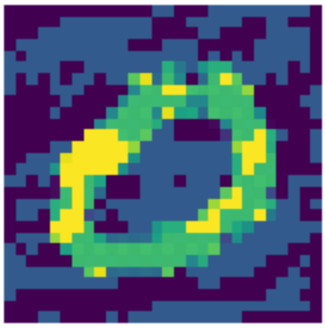
0 -> 5



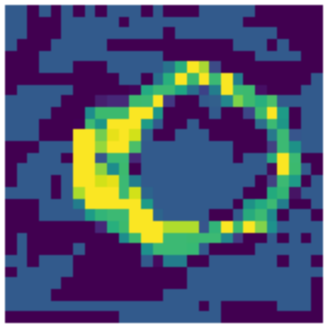
0 -> 2



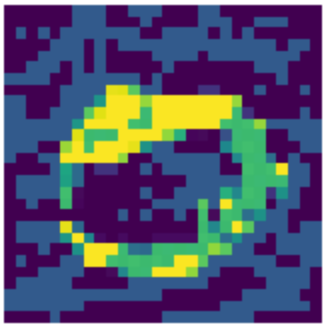
0 -> 2



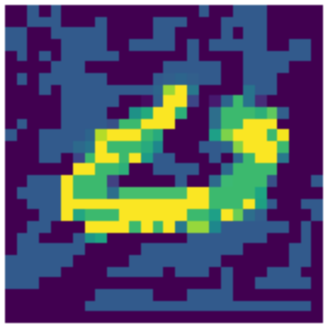
0 -> 6



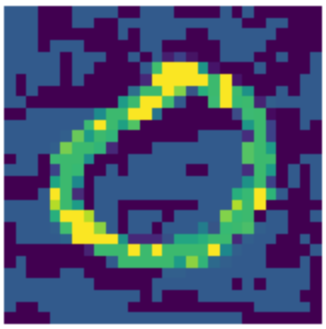
0 -> 5



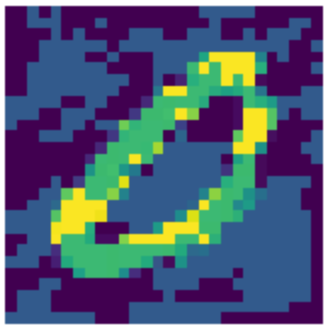
0 -> 4



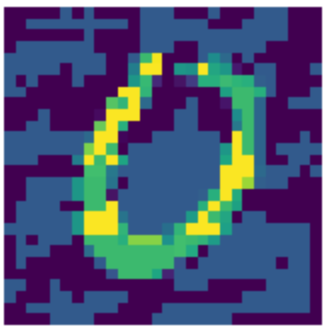
0 -> 9



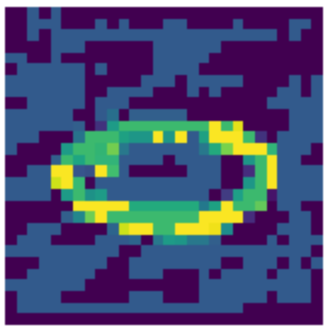
0 -> 8



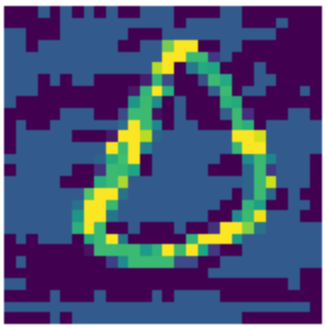
0 -> 6



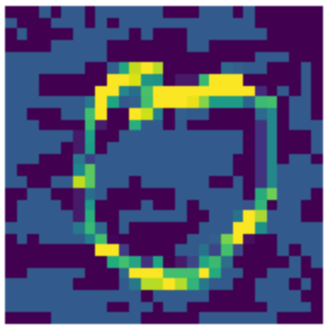
0 -> 6

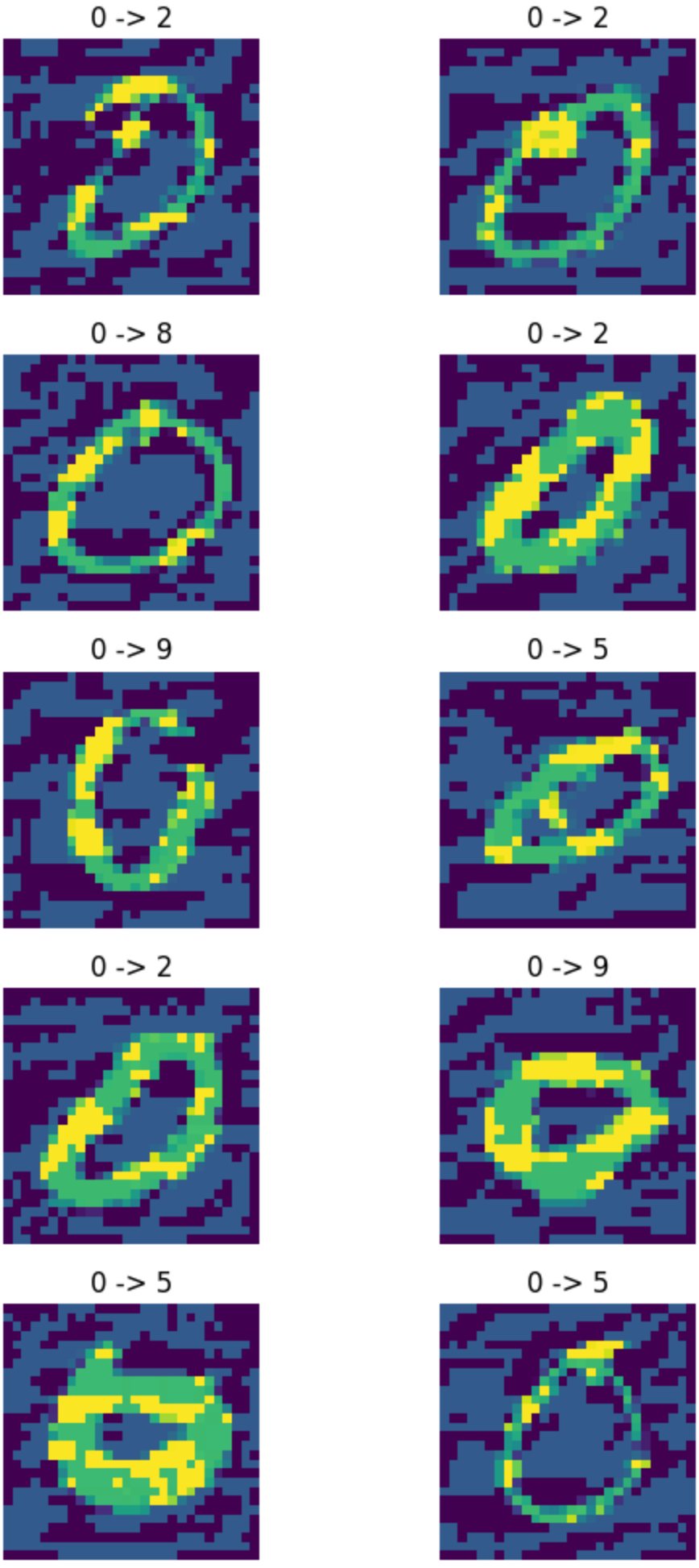


0 -> 8

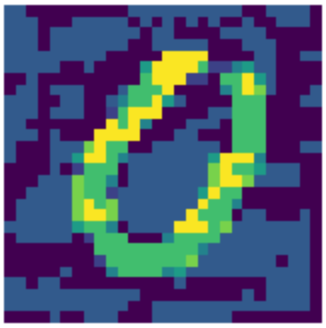


0 -> 5

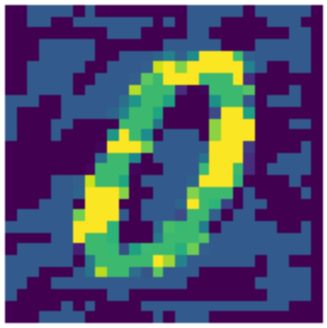



0 -> 2
0 -> 2
0 -> 8
0 -> 2
0 -> 9
0 -> 5
0 -> 2
0 -> 9
0 -> 5
0 -> 5

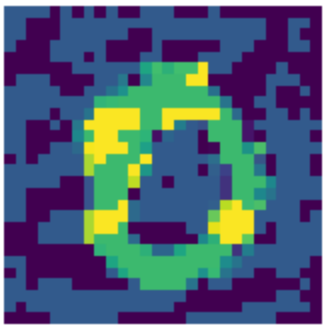
0 -> 4



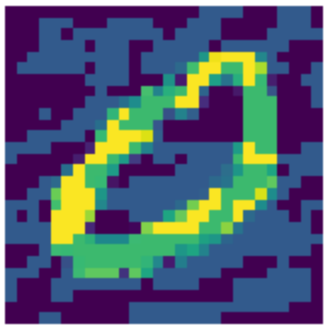
0 -> 2



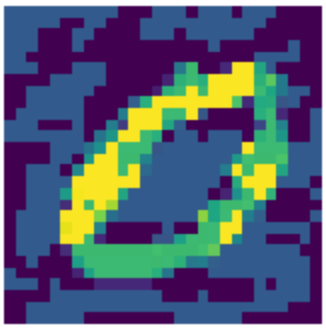
0 -> 5



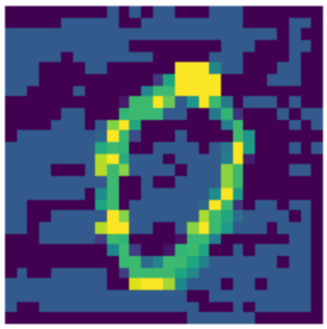
0 -> 2



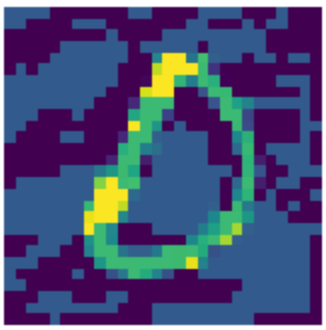
0 -> 6



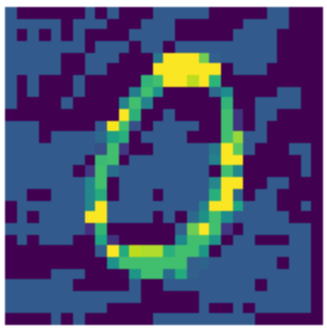
0 -> 9



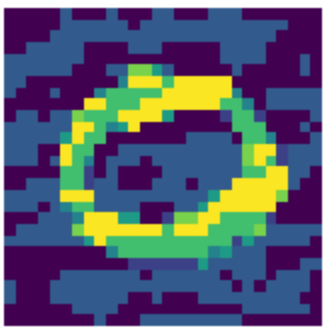
0 -> 8



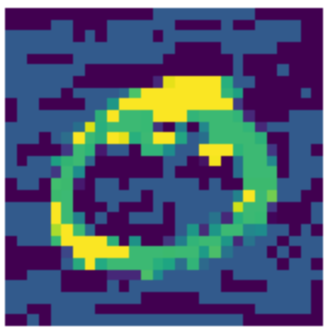
0 -> 9



0 -> 9



0 -> 5



```
------------------------------------------------------------
No misclassified images for stage: w/ Defense Attack
Attack: fgsm_pgd_attack
Dataset: MNIST
Training Epochs: 10
Retrained Clean and Adversarial Images: 124
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.
------------------------------------------------------------
```