- 1. The network architecture we used is Neural Network. The input layer have 1\*28\*28 neurons. The first hidden layer have 512 neurons and the second hidden layer have 128 neurons. The output layer have 10 neurons.
- 2. The activation function used is called Relu. Formula: Relu: A(x) = max(0, x)

3. Test accuracy: 96%

4. Test accuracy after reduce: 92%

- 5. The test accuracy reduced as the number of neurons decreases. This is because too less number of neurons would result in underfitting.
- 6. 10 different max iters values between 10 to 1000

MAX_ITERS	Accuracy
100	88%
200	89%
300	91%
400	92%
500	92%
600	93%
700	94%
800	94%
900	95%
999	96%

The accuracy is proportional to the number of iterations. This is because the more iteration we have, it will train a more adaptive model while it is not overfitting.