CS5830 - BIG DATA LABORATORY ASSIGNMENT-6 Report

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GITHUB LINK:

https://github.com/ashthambuu/BDL_ASSIGNMENT_6.git

MNIST Model:

Model 2 is taken from the given 10 models by comparing the performance of all models.

Architecture:

Layers: 3 dense layers

Activation: Sigmoid for first 2 layers and softmax for last layer
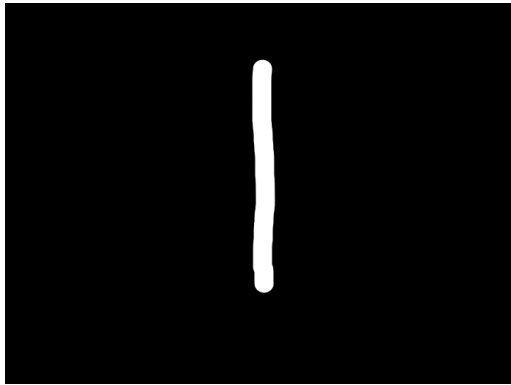
Loss: Cross entropy
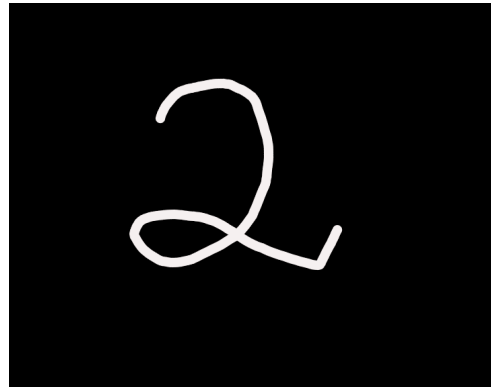
Number of epochs: 10

Performance:

Training accuracy: 98.9%

Testing accuracy: 98.2%

Handwritten digits and model predictions:
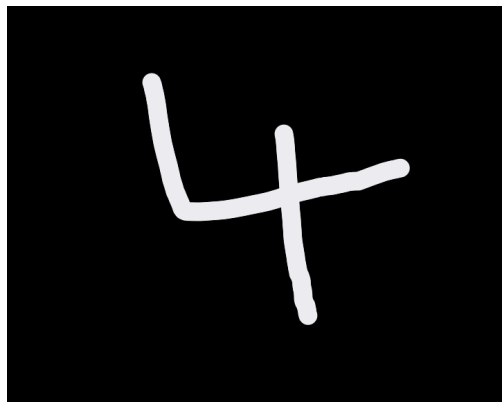

Predicted digit: 1
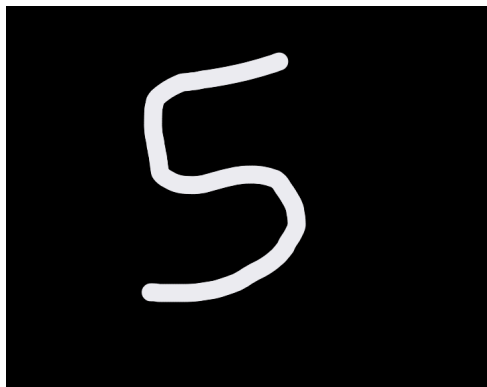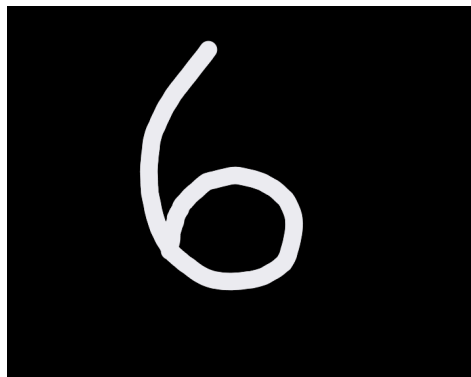

Predicted digit: 2

Predicted digit: 3

Predicted digit: 4

Predicted digit: 5

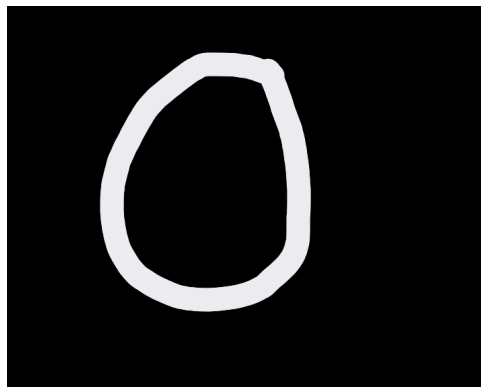
Predicted digit: 6

Predicted digit: 3

Predicted digit: 8

Predicted digit: 3

Predicted digit: 0

Digits 7 and 9 are wrongly predicted from the 10 handwritten digits.