Intro to Deep Learning

HW3

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Solution Part B:

We used NN Sequential Module of Pytorch for training and testing the model.

The model has 2 Linear layers, 2 ReLU activations and the output layer has Softmax activation. We use Cross-entropy loss to compute the loss for backpropagation.

Please find the below attached image of the output. The image shows the Training Loss for each epoch, training time taken and model accuracy.

As seen in the image, it took around 2.39 minutes for training the model with 60000 MNIST training images. After testing, 10000 MNIST test images the model has an accuracy of about 97.49 percent.

A screenshot of a cell phone

Description automatically generated

The working code is uploaded in the assignment submitted on Sakai.