EEL 6814

HMW # 4
Due October 17, 2023

1- The goal is to design a CNN to classify the famous MNIST dataset that you can find in this weblink http://yann.lecun.com/exdb/mnist/

The data is composed of 60,000 handwritten digits (10 classes) size 28x28 pixels by many people. The data is already divided in training and test data. If you want to use cross validation this data should be taken out of the training set.

You can use code downloaded from the web. Since this is just a homework, I expect to see the results presented as a confusion matrix, a list of all the details of the architecture, and a brief explanation of how the hyperparameters were selected.

Compare your results with the best ones from the literature, and explain how you could improve results.