

Assignment 4

Qi Le 5674954

Slp_linear

Single-layer Linear Perceptron Confusion Matrix, accuracy = 0.688

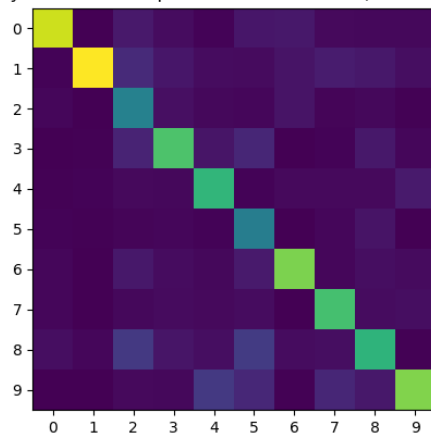


Figure 1 shows confusion matrix of Single-layer Linear Perceptron.

We used 4 parameters: learning rate = 0.03, decay rate = 0.8, iterations = 2001, batch size = 32. The learning rate decays per 1000 iterations. The accuracy is 68.8%.

Slp

Single-layer Perceptron Confusion Matrix, accuracy = 0.863

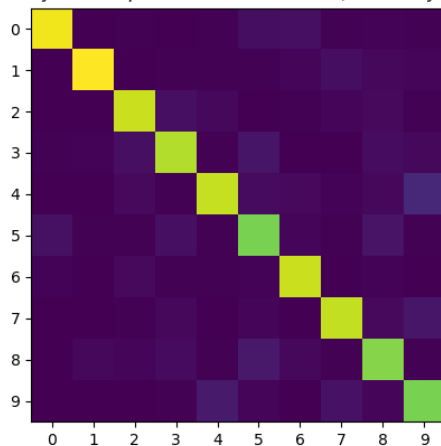


Figure 2 shows confusion matrix of Single-layer Perceptron

We used 4 parameters: learning rate = 0.2, decay rate = 0.9, iterations = 2001, batch size = 32. The learning rate decays per 1000 iterations. The accuracy is 86.3%.

Mlp

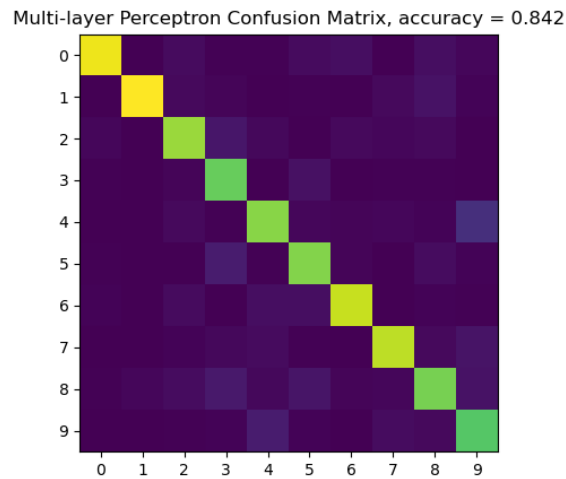


Figure 3 shows the confusion matrix of Multi-layer Perceptron

We used 4 parameters: learning rate = 0.23, decay rate = 0.9, iterations = 2500, batch size = 32. The learning rate decays per 1000 iterations. The accuracy is 84.2%

Cnn

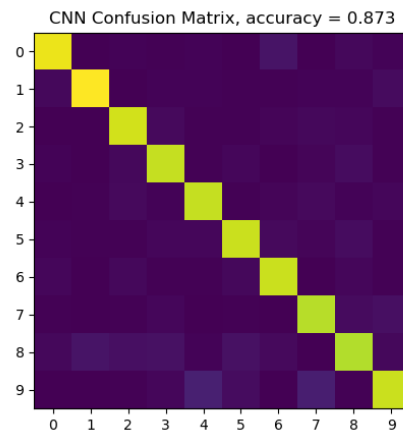


Figure 4 shows the confusion matrix of Convolutional Neural Network

We used 4 parameters: learning rate = 0.28, decay rate = 0.9, iterations = 2200, batch size = 32. The learning rate decays per 1000 iterations. The accuracy is 87.3%