CSCI 5561: Assignment #4

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The submitted code runs for 5000 iterations for all the algorithms, it takes ~5 minutes to run on my laptop. Below are the Confusion Matrix and Accuracies that I got after training the model:

1. Single-Layer Linear Perceptron, Accuracy = 79.9%

Single-layer Linear Perceptron Confusion Matrix, accuracy = 0.799

2. Single Layer Perceptron, Accuracy = 89.7%

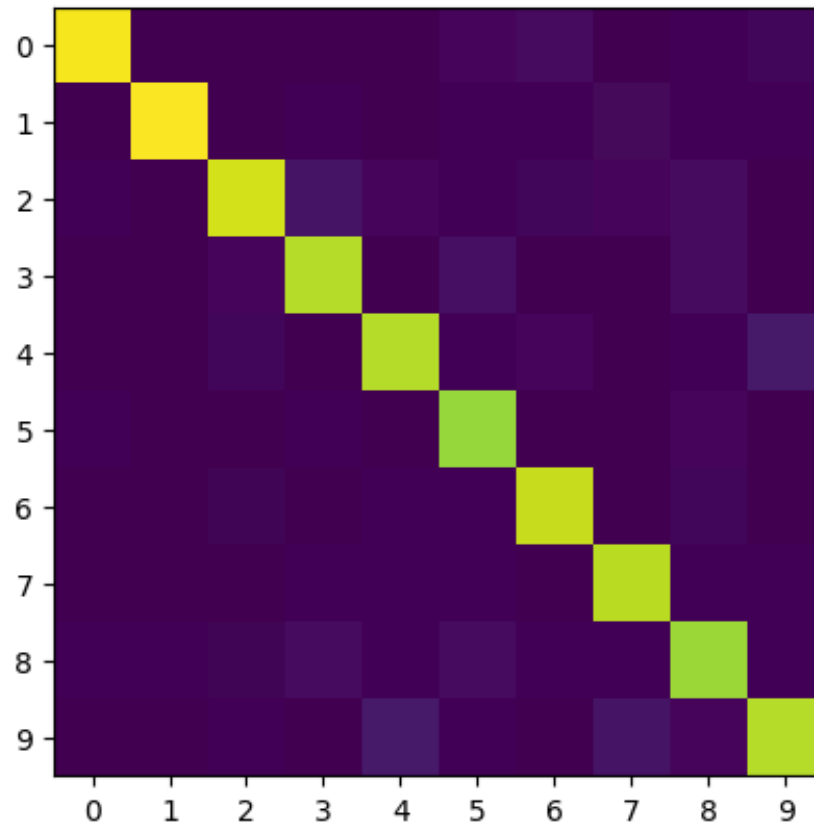Single-layer Perceptron Confusion Matrix, accuracy = 0.897

3. Multi-later Perceptron, Accuracy = 90.4%

Multi-layer Perceptron Confusion Matrix, accuracy = 0.904

4. CNN, Accuracy = 92.4 %

CNN Confusion Matrix, accuracy = 0.924