CSCI 5561 (Computer Vision)
Homework 4 Summary

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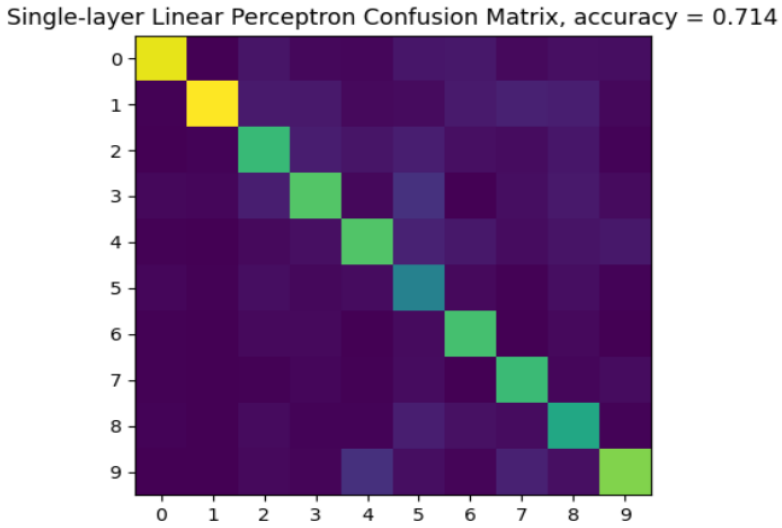
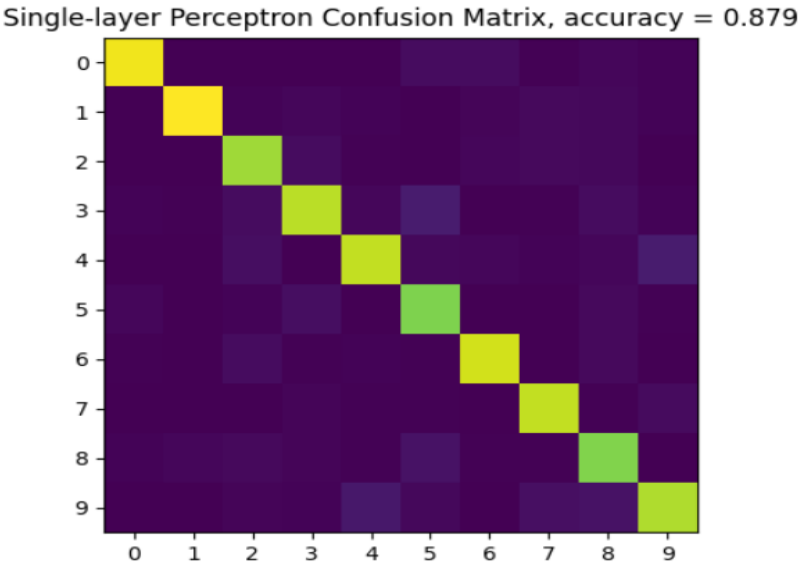
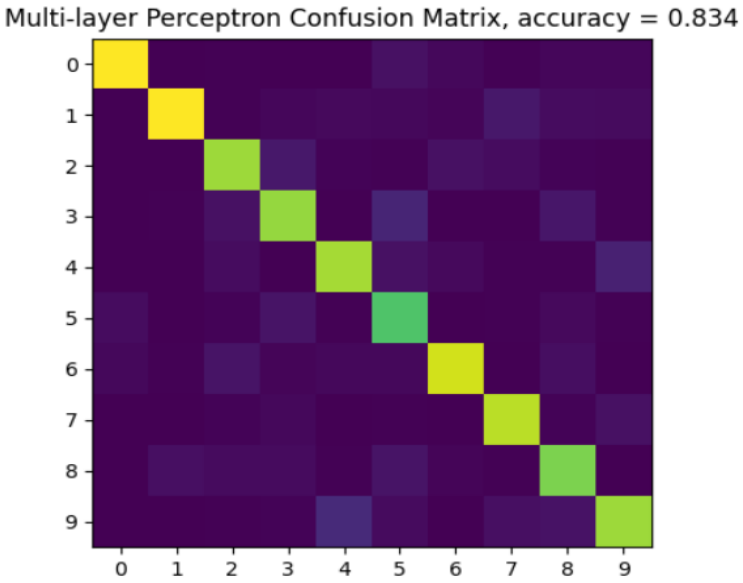
1. Single Layer Linear Perceptron - For single layer linear perceptron, the learning rate is 0.001, decay rate is 0.9 and number of iterations are set to 2000. The below is the confusion matrix obtained and the accuracy is 0.714



2. Single Layer Perceptron - For single layer perceptron, the learning rate is 0.01, decay rate is 0.9 and number of iterations are set to 2000. The below is the confusion matrix obtained and the accuracy is 0.879



3. Multi-Layer Perceptron - For multi layer perceptron, the learning rate is 0.001, decay rate is 0.9 and number of iterations are set to 20000. For ReLu, the epsilon is 0.01. The below is the confusion matrix obtained and the accuracy is 0.834



4. Convolutional Neural Network - For convolutional neural networks, the learning rate is 0.0022, decay rate is 0.6 and number of iterations are set to 10000. For ReLu, the epsilon is 0.01. The below is the confusion matrix obtained and the accuracy is 0.832