

## **Machine Learning**

**ECE 4332 / ECE 5332  
Spring 2018**

### **Project 6**

Train a convolutional neural network to recognize the MNIST handwritten digits. You may obtain the training and test sets from <http://yann.lecun.com/exdb/mnist/>. Your implementation will be judged on the following criteria, as evinced from Matlab outputs.

- a) Complexity of the network in terms of number of learnable parameters.
- b) Training time
- c) Training and testing accuracies
- d) Live demo that includes capture and detection of handwritten digits. This criterion will be weighed the highest.

This is a group project. No more than three students are to form a group and make a single submission.

**Upload a brief report on items (a)-(c) and your m-file to Blackboard before midnight on May 14.**