Columbia University IEOR4742 – Deep Learning for OR & FE (Hirsa) Assignment 2 – Due 8:40 am on Thursday Oct 24th, 2019

Problem 1 (Convolutional Neural Networks): In the sample code code example_CNN.jpynb

- (a) what is the number of parameters we are trying to learn?
- (b) add one more convolutional layer with max pooling and assess the impact of one extra convolutional layer on accuracy

Problem 2 (Batch Normalization): In the sample code code *example_CNN_Batch_Normalization.jpynb*, what is the impact of batch normalization on learning (speed & accuracy)?