CS507/CISC867 Deep Learning
Assignment 3

Prof. Francois Rivest

Due date: March 7, 2019

Your assignment must be completed on a print-out of the tutorial and an 8.5"x17" sheet, folded and stapled together and be submitted in class on March 7th.

Question 1

Go through the following tutorial `https://www.tensorflow.org/tutorials/estimators/cnn`. It is also available as a Jupyter Notebook file `https://github.com/tensorflow/docs/blob/master/site/en/tutorials/estimators/cnn.ipynb`. Print it.

Add explanation of your own for each piece of code. Be as detailed as possible.

Then take a 8.5"x17" sheet, and try to draw the network, details of the training set input and output patterns organization and coding, etc. Draw the layers, some connections, specify activation types, strides, number of units, size of vectors, etc... Try to be as detailed a possible about every step (network model, cost function, data organization, etc).

We want to see that you know what this code is doing and what it is implementing.