CS5597: Directed Reading
Distributed Classification for Deep Learning
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Project Progress Report
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Objective:

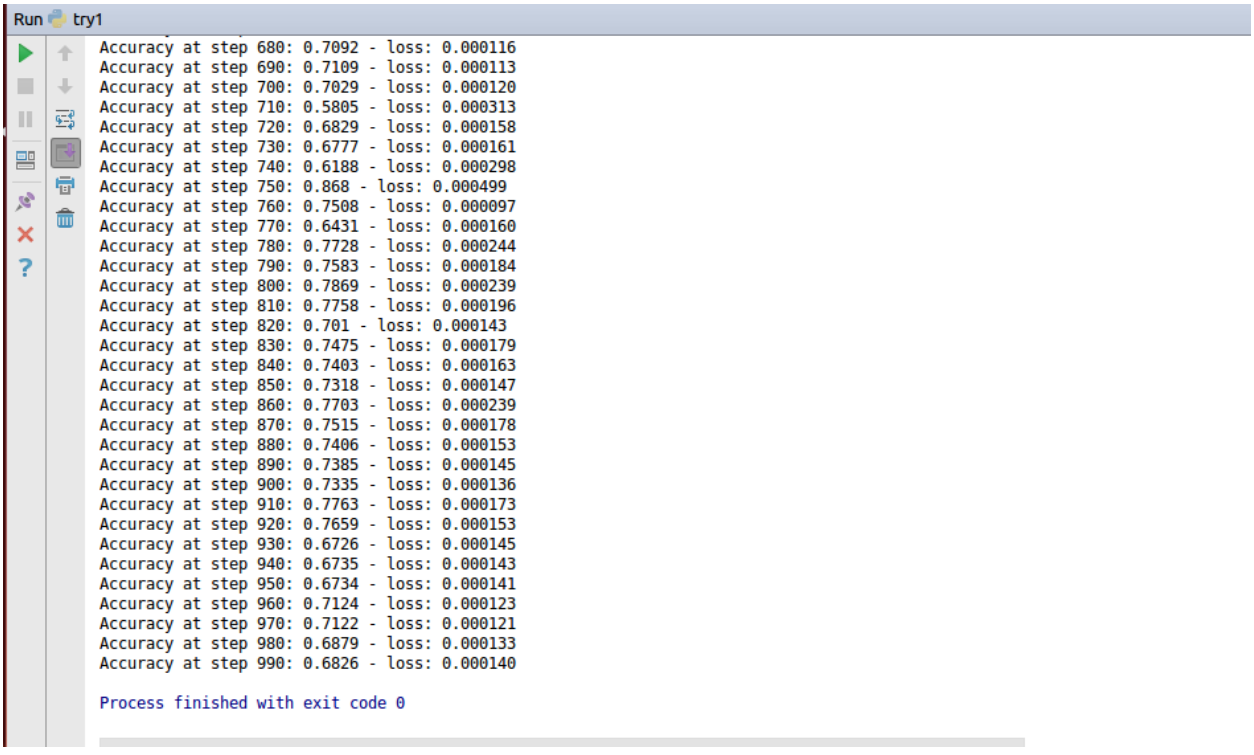
To implement training of one class in MNIST dataset so the model can learn only one class.
(The MNIST database (Mixed National Institute of Standards and Technology database) is a large database of handwritten digits that is commonly used for training various image processing systems. The database is also widely used for training and testing in the field of machine learning.)

Implementation:

The designed approach is to input 784 pixels of image to model and these images should be separated out per classes. The SOFTMAX model is created having defined two classes from the MNIST dataset.The same weight and biases of the class size provided to the model . Train the model and feed in test data and record the accuracy and loss at every 10 steps

Results:

After 1000 iterations the accuracy of model in different runs:



Weakness of Model:

The labels need to be defined properly to achieved desired results

Future Approaches:

Learn how to implement visualization in Tensorflow and Python. Observe weight distribution between actual global model and combined model.