First of all, I was told to build a simple MLP (multi-layer perceptron) and achieve 93% precision on MNIST challenge on Kaggle. I tried a simple two layers network where I achieved 91%. For making things better I tried dimensionality reduction like PCA, Using HOG, and all other things however I got from 85% to 92.15% and not better (beat the meat.py). Therefore I started new project and I tried to make my code simpler. I got a fascinating results of 97% on a normal MLP on pixels (I'm out.py). I used Tensor flow to do all this. One of the things which I've learned is that about what accuracy on dev set and train set means, and what comparing them will award me.