Deep Learning Project Abstract

Topic: Fashion Images Classification, Generation and Discrimination

I propose that I will use Fashion-MNIST data to train a model that can classify the test images. I will then generate fashion images, and build a discriminator which takes the real data and images generated by the generator and classifies between true and fake (newly generated) images.

This process would be similar to the process outlined in this article: <https://towardsdatascience.com/image-generation-in-10-minutes-with-generative-adversarial-networks-c2afc56bfa3b>

Fashion-MNIST is a dataset consisting of 28×28 grayscale images of 70,000 fashion products from 10 categories, with 7,000 images per category. The training set has 60,000 images and the test set has 10,000 images. Fashion-MNIST shares the same image size, data format and the structure of training and testing splits with the original MNIST.