

Programming Assignment 3

Due date: Jan 26th

- You will implement a GAN model. The layers of the generator and discriminator are specified in the given code. The distribution on the latent space is Gaussian
- The discriminator maximizes $\mathbb{E}_{x \sim P_{data}} [\log D(x)] + \mathbb{E}_z [\log(1 - D(G(z)))]$
- You will do two variations. One is the standard when the generator maximizes $\mathbb{E}_z [\log(D(G(z)))]$ and one is the original when G minimizes $\mathbb{E}_z [\log(1 - D(G(z)))]$.
- Implement and run on MNIST and Fashion-MNIST for 100 epochs.
- You are given a template code that you need to fill in with the missing pieces. You need to submit the filled in code
- Submit the sampled images from your model at every 10 epochs.