

Tutorial 6: Classification of MNIST (again) using GANs

We revisit the MNIST classification problem, but now with a GAN and within PyTorch, see notebook: Tutorial_6.ipynb.

- (i) Go through the code and describe what networks are used for the Generator and Discriminator.
- (ii) What is the loss function that is used in the GAN?
- (iii) Identify the hyper parameters in the GAN.
- (iv) Study the loss function of both networks as a function of the beta (b_1 and b_2) parameters in the GAN
- (v) Evaluate the performance of the GAN (for best chosen hyper parameters).