

PORTLAND STATE UNIVERSITY

DEEP LEARNING: COMPUTATIONAL STRUCTURES
AND PROGRAMMING

WINTER 2021

Project #5

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March 9, 2021



1 Implementing DCGAN in Pytorch

1.1 Time Taken and Challenges

It took about 7 hours and 8 minutes to run the script on CPU.

I had issues when trying to run the script on the GPU. I got a message saying that the NVIDIA drivers on my machine are too old and need to be updated. My machine is running Ubuntu 18.04 LTS and I am still trying to update the NVIDIA drivers and get the script to run on GPU to see how long it will take.

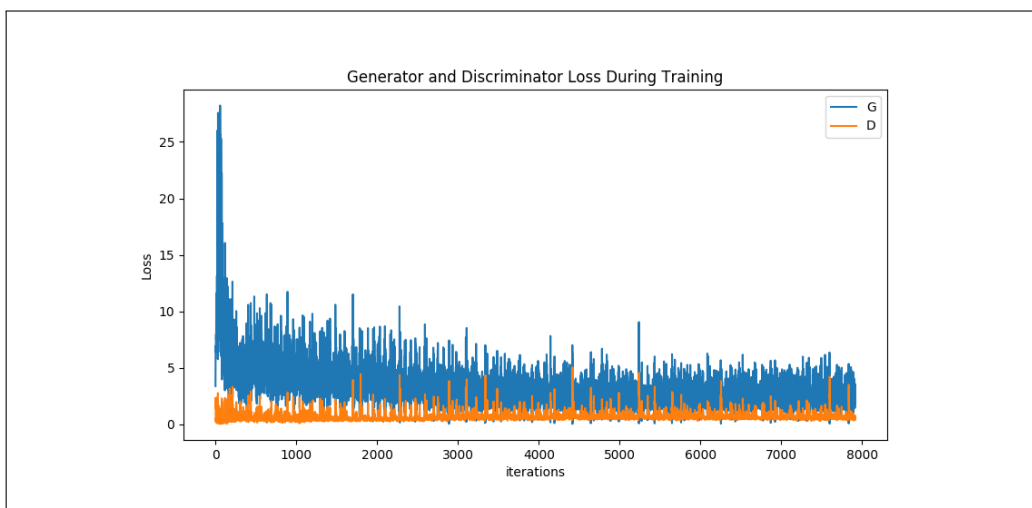
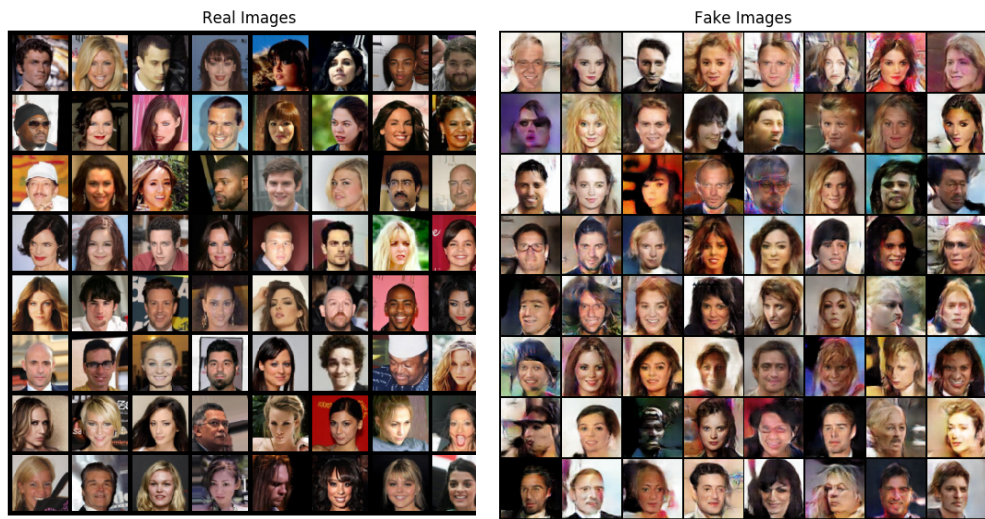


Figure 1: Generator and Discriminator Loss During Training.

1.2 Provide a Set of Real and Fake Images



(a) Set of real images.

(b) Set of fake images.

Figure 2: A set of real and fake images