

Homework 4

ECE285

Due: 11:59pm PT on Mar 7

In this homework, we learn how to use GAN to generate medical images.
Take the chest X-ray dataset here

<https://www.kaggle.com/paultimothymooney/chest-xray-pneumonia>

Take the code of GAN here

https://pytorch.org/tutorials/beginner/dcgan_faces_tutorial.html

Then train a GAN model on the chest X-ray dataset, use the trained GAN to generate chest X-ray images, and write a short report (1-2 pages, NeurIPS format).

In the report, you can include the following: 1) hyperparameter settings; 2) training loss curves; 3) Inception score and FID score of generated images, 4) examples of generated images.

Submit the report to Gradescope. No need to submit code.