

Homework 7

Due: 2021-12-8 (Wed.) 8pm

Introduction

In this assignment, you will complete a conditional GAN (cGAN) . you will discover how to develop a conditional generative adversarial network for the targeted generation of items of clothing. You will know:

- The limitations of generating random samples with a GAN that can be overcome with a conditional generative adversarial network.
- How to develop and evaluate a conditional generative adversarial network for generating photos of items of clothing.

- **Setup**

- **Start IPython**

- you should start the IPython notebook from the `homework_7` directory, with the `jupyter notebook` command.

- **Experiments**

There are `### START CODE HERE` / `### END CODE HERE` tags denoting the start and end of code sections you should fill out. Take care to not delete or modify these tags, or your assignment may not be properly graded.

- **Q1: Conditional GAN (100 points)**

- The Jupyter notebooks `cGAN-PyTorch.ipynb` will introduce the pipeline of developing and evaluate a conditional generative adversarial network for generating photos of items of clothing.

- **See the code file for details.**

- **Submission**

You need to accomplish the following files:

- 1) Conditional GAN**

- `cGAN-PyTorch.ipynb`

- 2) Report**

- Please convert your experiment report to PDF format.
 - You just need to upload all your code and report and do not upload datasets.