Project Deliverable 2

Questions Answered:

- How can we reduce the feature dimensions in order for us to compare the visual similarity of images?

  A: Using the encoder I trained last week I decided to go ahead and reduce the dimensions of current images even without being able to perfect the decoder. I decided that I'll have to improve the autoencoder and repeat the dimensionality process over and over.

- How does the GAN model perform on synthetic images?

  A: The face scale is very different when we compare the real images and the synthetic images. Therefore in order to perform style transfer from one image to another we had to crop the real images in order to see the result.

Challenges:

- This week I've been weighing the pros and cons of using the SCC vs Google Colab GPUs; the later is way easier but the former is more affordable (sigh)

Next Steps:

- Now that we have a way to vectorize the images, we're going to train a KNN model to gauge the visual similarity of images with the same attributes. These attributes are predetermined in the CelebA dataset. (I wasn't able to get to this before publishing this report but I'll have to be done with this by the next report)

Meeting with my Advisor:

- I will be meeting my advisor tomorrow to discuss the project progress.