

Project Deliverable 2

Questions Answered:

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

A: I trained an autoencoder to output the reduced vector representation of an image in the training set

- What are the applications of the project?

A: Initially, the GAN was going to be used in the wild to create avatars. Now we're thinking of using the autoencoder to perform sudo labeling of images sourced in the wild. We will also attempt to use the GAN to improve the quality of synthetic images.

Challenges:

- Getting accustomed to the SCC for training the autoencoder
- Carefully restructuring the project in order to be sensitive to the topic of race/representation in data science

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.

Meeting with my Advisor:

- I met with my project adviser twice between now and the last report time. I intend to meet her again before the end of the week.