

### Project Deliverable 3

#### Questions Answered:

- What is the smallest dimension of singular values that I can use to represent the image?

A: Using SVD I can represent the image (256 x 256) using 20 singular values as opposed to using all 256 columns. I was able to run a KNN algorithm on these downsized images.

- Why is my autoencoder performing so poorly?

A: After meeting with Professor Bargal I realized that i was reducing the image dimensions so low that the decoding process was missing the necessary information to reconstruct the image

#### Challenges:

- N/A

#### Next Steps:

- Pick new samples from the dataset, classify them using my KNN algorithm and evaluate the results

#### Meeting with my Advisor:

- I met my advisor this past Tuesday and I'll meet her again next Tuesday.