

# CS696E Progress Update 2

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# Where I'm At Now

- Trained model for age estimation
  - Uses a pre-trained Squeeze-and-Excitation network
    - Originally used a ResNet model, but performance was worse
  - Fine-tuned on APPA-REAL dataset (in particular, the cropped face images)
  - Performs 101-way classification (for 0-100 age range)
  - Images are resized and normalized
- Performance is not super great
  - Best mean absolute error on the validation set was 7.8787 years

# What's Next?

- Figure out ways to improve age estimation model
- Investigate making the age estimation task simpler for the model by reducing the learning problem to only learning two classes: child or adult
- Look into adding gender prediction
- Take bounding boxes from face detector, crop out faces using bounding box, then pass them into age recognition model to get age estimations