

CS696E Progress Update 8

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Problems I'm Working On

- Facial recognition
 - Clustering of unknown faces to detect similar faces across images
 - Recognizing age from faces to determine kids vs. adults in images
- Background extraction

Previously on CS696E....

- Additional experimentation with three-class age classification model
- Re-working and documentation of all existing code

Where I'm At Now

- Pre-trained binary image segmenter up and running
 - Semantic segmentation model that was pre-trained on two datasets specifically for segmenting humans vs. background
 - Uses the “Automatic Portrait Segmentation for Image Stylization” and “Supervisely Person” datasets

What's Next?

- Complete full pipeline of background extraction
 - Code is also pretty hacky, need to rework several things
- Possibly try training a model from scratch with alternate architectures using the same datasets
- Compare binary vs. scene segmentation models
- Test age estimation on LFW dataset