MSBD 5011 Adavanced Statistic Project

Running Guide

If you want to run our code in your computer, please download some package files from my google drive (I will give you the links) and change the paths of each package used in codes, then you can run the code files in method 1 and method 2.

data dir: **data**

32pts_svm.joblib: **32pts_svm.joblib**

smile.joblib.pkl: **smile.joblib.pkl**

haarcascade_frontalface_default.xml: **haarcascade_frontalface_default.xml**

And, if you want to train your own model, you can download the faces training data from follow link:

faces_data: **faces_data**

What`s more, In method 2 dir, you will find a code file named **"mtcnn_detector.py"**, this is come from the **MTCNN**: **https://github.com/kpzhang93/MTCNN_face_detection_alignment**.

Reference

[1] **MTCNN**: **https://github.com/kpzhang93/MTCNN_face_detection_alignment**

[2] **Facial Expression Recognition with Keras:** **http://sefiks.com/2018/01/01/facial-expression-recognition-with-keras/**

[3] **OpenCV cascade:** **https://docs.opencv.org/master/db/d28/tutorial_cascade_classifier.html**

[4] **OpenCV + Dlib 68 landmarks example:** **https://my.oschina.net/wujux/blog/1622781**