**Python Code Running Module**

cd C:\Users\vrajshah\Desktop\facial

**Facial Scan Folder:** python Facial\_Scan.py --cascade haarcascade\_frontalface\_default.xml --output dataset/\*\*\*

**Extracting Face Recognition:** python extract\_embeddings.py --dataset dataset --embeddings output/embeddings.pickle --detector face\_detection\_model --embedding-model openface\_nn4.small2.v1.t7

**Training Model:** python train\_model.py --embeddings output/embeddings.pickle --recognizer output/recognizer.pickle --le output/le.pickle

**Recognize Faces:** python recognize.py --detector face\_detection\_model --embedding-model openface\_nn4.small2.v1.t7 --recognizer output/recognizer.pickle --le output/le.pickle --image images/\*\*\*.jpg

**Recognize Face with Video:** python recognize\_video.py --detector face\_detection\_model --embedding-model openface\_nn4.small2.v1.t7 --recognizer output/recognizer.pickle --le output/le.pickle

**Real Time Object Finder:** python Real\_Time\_Finder.py --prototxt MobileNetSSD\_deploy.prototxt.txt --model MobileNetSSD\_deploy.caffemodel

**Real Time Motion Detection:** python Motion\_Detection.py

**Motion Detection with \*.mp4:** python Motion\_Detection.py --video videos/\*\*\*.mp4

**Color Picker:** python ColorPicker.py --image images/\*\*\*.jpg

**\*\*\*** means change to file name

**In other Computers:**

First install pip:

1. Open CMD
2. curl [https://bootstrap.pypa.io/get-pip.py -o get-pip.py](https://bootstrap.pypa.io/get-pip.py%20-o%20get-pip.py) – **Copy & Paste**
3. python get-pip.py – **Copy & Paste**

Install Various packages for program to work from cmd:

1. pip install pyautogui
2. pip install imutils
3. pip install numpy
4. pip install opencv-python
5. pip install scikit-learn

Thanks to pyimagesearch.com for explanations of the code.