Computer vision final project

Pupil tracking

Environment

Python 3.8.10

efficientnet_pytorch==0.7.1

numpy==1.22.4

opencv_contrib_python==4.5.5.64

Pillow==9.1.1

torch==1.11.0

torchvision==0.12.0

torchaudio==0.11.0

torchvision==0.12.0

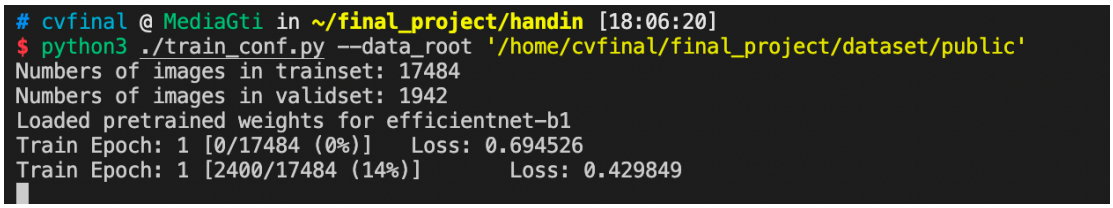
Training steps

1. Segmentation model training

   python3 ./train_seg.py --data_root {dataset file path}

2. Confidence model training

   python3 ./train_conf.py --data_root {dataset file path}



Testing steps

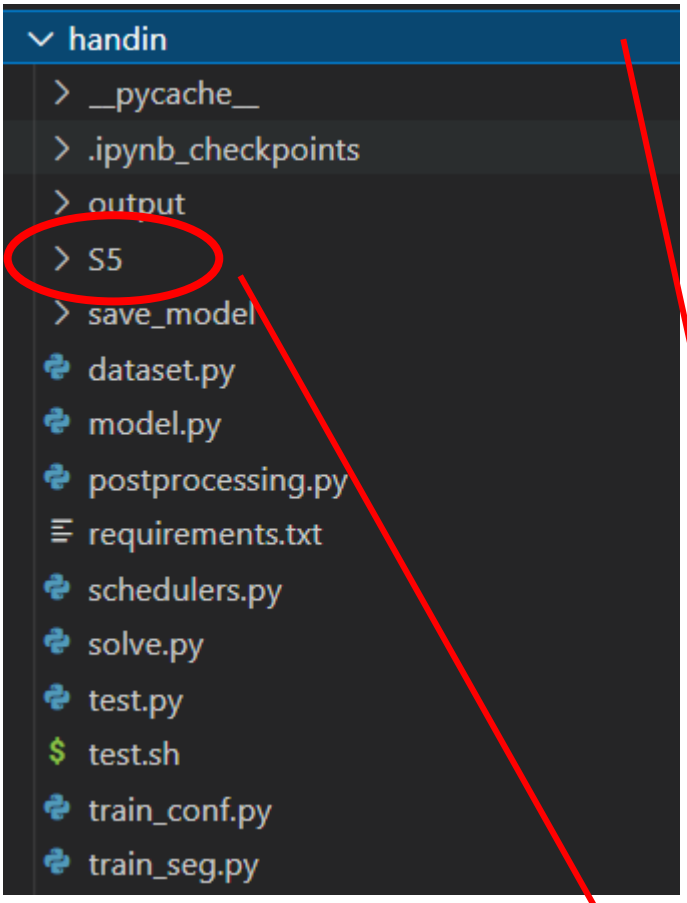
1. Prepare your testing dataset in this format

2. Environment installation

   pip3 install -r requirement.txt

3. Run the script file

   bash test.sh

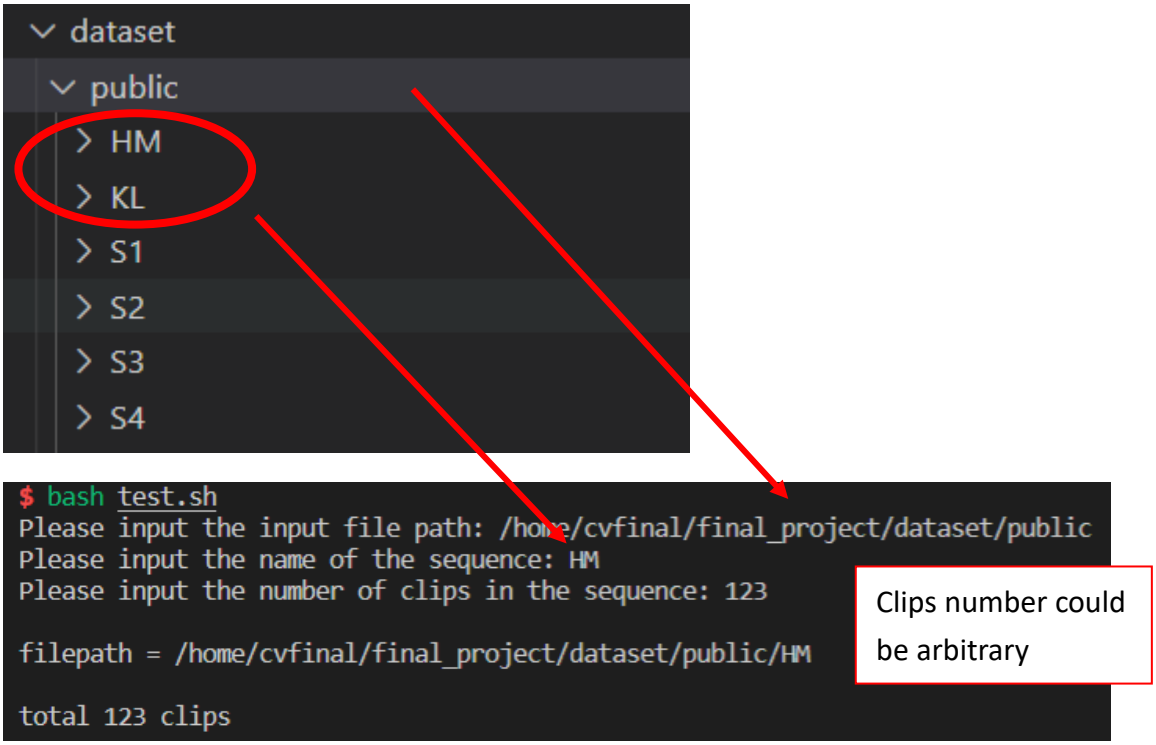



```
$ bash test.sh
Please input the input file path: /home/cvfinal/final_project/handin
Please input the name of the sequence: S5
Please input the number of clips in the sequence: 26

filepath = /home/cvfinal/final_project/handin/S5

total 26 clips
```

26 clips in total for S5

- For challenge dataset

  Challenge dataset should be named as **HM** and **KL**



4. Result

   Result will be stored under the folder named **output**