Project instructions

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1 Introduction

The project code includes two compressed files, one is the face recognition network suitable for CASIA-Webface and VGG2 datasets, and the other is the true and false face recognition network suitable for FFHQ. They are named Disguised face recognition and fake or real.

Link to the data set:
https://drive.google.com/drive/folders/1dKJQ6ekOjoYJHVpbyKaT8mwSrjZjJceQ?usp=sharing
This link contains three data sets namely CASIA-Webface, VGG2, and FFHQ. These three data sets contain the part of the original data set used by the project and the data set used for project training and testing. For CASIA-Webface and VGG2, original and disguised are added to their suffixes to distinguish the original and processed data sets. FFHQ contains training and testing files.

Run the file: After decompressing the Disguised face recognition file, you will find a makedate.py file inside, which is used to detect, cut, and disguise the face. The processed data set is also included in the above Google Cloud link. You can manually run this file to generate the data set, but it will cost you a lot of time. You can choose to get my processed data set from the cloud disk and run it under the root directory. In addition, there is a build-triple.py file under this file to build a triple data set, then run train.py to train the entire network, and finally, run test.py to test the results. Of course, training the entire network takes a lot of time.
Unzip the fake or real file, you will find a file named SSM, click on this file and choose whether to train or directly test the model in main according to the comments. The corresponding result will be obtained after running.