

Design HandWritten Student ID Recognition System Project

CMPE258 Deep Learning, Professor: Harry Li

Name: Yoonjung Choi, SID: 013907062

File Structures

Python Code files

- MNIST_model.ipynb
- MNIST_main.ipynb

Video files:

- SID2.mp4 (prepared test video file)
- webcam_mnist_output.mp4 (generated by python code)
- webcam_mnist_pre_output.mp4 (generated by python code)
- video_mnist_output.mp4 (generated by python code)
- video_mnist_pre_output.mp4 (generated by python code)
- Result_live_webcam.mp4(filmed by PhoneCamera)
- Result_video.mp4(filmed by PhoneCamera)

Mnist model file:

- yoonjungchoi_mnist_3.h5

Version requirement running on Anaconda Jupyter.

- h5py == 2.10.0 (when loading model, error occurred)

README

1. Be sure version 'h5py == 2.10.0' to load the saved model without any error.
2. There is a model 'yoonjungchoi_mnist_model.h5' from MNIST_model.ipynb
3. Running handwritten digits recognition file 'MNIST_main.ipynb' on anaconda.

Enter user_input '0' for live webcam

Enter user_input '1' for prepared video.

Result:

