

Machine Learning

Assignment #2

Face Recognition by Caffe

Requirement

- Setup Caffe environment
- Convert Extended Yale Face Dataset to H5 format
 - Or other compatible format
- Design a single layer NN structure for face recognition
 - With one input layer and one output layer
 - and one hidden layer with 1, 10, 50 nodes.
- Draw your training error curve for three models.
- Calculate the classification accuracy.

Submit the following items...

- **Deadline : 3/29 (三) 11:59 p.m**
- Report of the steps your install Caffe.
- Provide a Q&A of setup Caffe.
 - About the problem or difficulty your encounter during the setup
- Submit your model and H5 files.
- Readme – How to run your code.
- Report
 - Can your model converge under three settings?
 - Experimental results
 - Three plots of training errors
 - Compare classification accuracy of three models and results of Nearest-Neighbor