

Team Cybernetix

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Report on Project Progress

We can use Cascade Trainer GUI to train, test and improve cascade classifier models. It uses a graphical interface to set the parameters and make it easy to use OpenCV tools for training and testing classifiers.

1 - Stage: After installation of Cascade Trainer GUI, the next thing was to open two new folder named 'n' and 'p' and upload positive and negative images. We had around 1000 positive images, and around 5000 negative images.

2 - Stage : In this stage images were re-sized as 1024X768 so we can train them, into the 'p' folder we uploaded our own face datasets and tried to train it.

3 - Stage: Error occurred 5 -6 times during the train process, it showed error as 'lack of positive images' and with the assistance of professor , finally managed to solve the problem. In the link that professor provided there were two ways to solve them , first tried to lower positive image usage to around 90 percent but it did not work then we used the second way and forced positive sample count to 500 and it worked.

4- Stage: we tested our project using the python code, it worked fine.

5- Stage: we took a demo video and uploaded everything to a new GitHub account.