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| S.No | Date | Work Done Today | Next Day Plan | Important things to Remember |
| 1 | 08/05 | Installing opencv python and requirements, plotting histograms of images. |  |  |
| 2 | 09/05 | Detection of human frontal and profile faces, eyes, mouth using different haar cascades. Experimenting with haar cascades and lbp cascades to predict person looking to his left. |  | Haar and lbp cascades do not predict profile faces in which person is looking to his left. |
| 3 | 10/05 | Learned github, crawled images from image-net and learned about fischer faces. |  |  |
| 4 | 11/05 | Crawling of images via link and via text files. Implementation of fischer face detection on CK+ dataset. | Improve accuracy for face detection. | The urllib package throws unicode error sometimes when crawling directly via a link, this error won't occur in case of text file url extraction. |
| 5 | 12/05 | Increased the accuracy of fischer face detection to 87% by increasing the dataset and combining some files for emotions. |  | contempt -> sadness  disgust -> anger |
| 6 | 13/05 | Tested different xml files generated for real test subject. Took the real camera feed of my emotions to evaluate model accuracy. |  |  |
| 7 | 14/05 | Holiday |  |  |
| 8 | 15/05 | Read about deep cnn, wrote a deep cnn based code and trained for 25 epochs. Got output training and test accuracies.  Accuracy – 72.81% for 25 epochs. | To train deep cnn for larger no. of epochs | Download emofbvp database,  digital ocean server training |
| 9 | 16/05 | Trained the deep cnn for 100 epochs. Deep cnn is found very good in predicting happiness emotion. Generated database of my own emotional facial expressions for proper evaluration. | To simultaneous-ly use fischer and deep cnn for predicting human emotions and evaluating accuracy. |  |
| 10 | 17/05 | Wrote 2 codes, 1 for reading images from a folder and other for reading input from a camera and predicting emotion simultaneously using fischer face prediction and deep learning convolutional neural network.  Tried to introduce some modifications to improve accuracy for code 1. | To test accuracy of input read from camera i.e. code 2 and improving the accuracy. |  |
| 11 | 18/05 | Compromised with emotion between anger and sadness and tested the code2 (getting camera feed) on other subjects directly with live feed from camera. Removed the bugs from code 2 to get it working correctly. | To test efficiency on demo videos generated from cctv cameras. |  |
| 12 | 19/05 | Tested the efficiency on two movie clips. The efficiency is found good, the predicted emotion even for profile view is good up to a large extent. However currently, we are relying heavily on haarcascades to detect faces which is the reason for major errors. We need to improve the face detection for target subjects. | To improve face detection accuracy for shortlisting target subjects in a test image. |  |
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