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ID Number: 07

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| S.No | Date | Work Done Today | Next Day Plan | Important things to Remember |
| 1 | 09/05/17 | 1. Installed - numpy, Pip, Matplotlib, PIL, and OpenCV.  3. Firstly started with how to read an image in Python using OpenCV, numpy, plt lib functions.  4. Then we have created a binary histogram for that Image in OpenCV.  5. The work which I have done has been attached here in Demo files and Source code. |  |  |
| 2 | 11/05/17 | 1. Done with Web cam reading i.e. Video capturing.  2. Extracted gray images from the Video captured.  3. Plotted histograms for those Captures. |  |  |
| 3 | 12/05/17 | 1. Understanding coding regulations and installed packages, pep8, sublime linter for correcting errors in the code. 2. Installed sublime text editor, git. 3. Linked Git with airbots repository on Github. |  |  |
| 4 | 13/05/17 | 1. Cloned all the data from the Airbots beta project in Github which were uploaded for the last 4 days. 2. Added folders in to the cloned folders. 3. Pushed all the work done files of mine into the respective repositories. |  |  |
| 5 | 15/05/2017 | Browsed the web for applications used for detection and tried few codes for human body detection with haar cascades and hog. | as the code din’t work properly , should try other. |  |
| 6 | 16/05/17 | Started writing code for body detection (face, upperbody, lowerbody, profile, full body) using haar cascades and result of the were not satisfactory for all. | Should try using other methods. | Though changing the parameters in the code is working for some images but it is not efficient for all. |
| 7 | 17/05/17 | The face detection using hog was working and tested it with a sample video. Collected the data sets. Watched videos of local binary histograms. | Should learn the local binary histograms and should apply for detection of faces. | Although the code worked the efficiency has to be improved. |
| 8 | 18/05/17 | Trained the program to recognize and identify the faces. | Have to club all the programs into one. | The program is not efficient in identifying the faces correctly. |
| 9 | 19/05/17 | Code for detection and recognition of faces is completed and is working fine. | Train the code for recognizing the human. | Detection of faces and recognizing is done and working with high efficiency. |
| 11 | 20/05/17 | Ran the code with different videosamples and collected a few datasets and gave presentation. | Collect the data and should change the code for better results. | - |
| 12 | 22/05/17 | Discussed about the object detection and human detection and relating them. Changed the code a bit. | Should remove the intersection of the region of interests. | Changing the code increased a bit of efficiency in detection of faces in different videos. |
| 13 | 23/05/17 | Tried to remove the intersection of region of interests in the video none worked. | The same as the previous day |  |
| 14 | 24/05/17 | Tried different methods to remove the intersection of region and browsed for codes if there are any. | Collection of datasets of face and fullbody. | None worked |
| 15 | 25/05/17 | Collected datasets for face but coundn’t find much on full body. | Converting them to gray and resize. |  |
| 16 | 26/05/17 | Conversion of face datasets to gray and resizing them to required size is done. Face recogition output video is done | Collection of negative images for training |  |
| 17 | 27/05/17 | Helped sunil in creating the datasets for training. Overlapping of regions of interest is prevented with the help of ayush. | Should work on face recognition to recognize the people in real time. |  |
| 18 | 29/05/17 | Started working on new project Tracking persons in the video |  |  |
| 19 | 30/05/17 | Written the code for identifying the persons and storing the persons. |  |  |
| 20 | 31/05/17 | Same as the previous day. |  |  |
| 21 | 01/06/17 | The input method has become a problem, have to shift from terminal to video and then to terminal. Tried rectifying it. | Should browse if there are any sources. | The code is unable to identify the persons properly |
| 21 | 02/06/17 | Browsed the web for any codes, couldn’t find any. The code is not working. Asked Naveen for any changes in the project. |  |  |
| 22 | 03/06/17 | The project was changed to track a single person from the video surveillance along with Dheeraj. Started editing the previous code. | Should code for numbering the identified faces in the video and appending the faces |  |
| 23 | 05/06/07 | Code for numbering the persons identified is done, appending the region of interests and taking pictures of person of interest is working fine. | Should work on giving the commands/input on the video other than on terminal. |  |
| 24 | 06/06/07 | Worked on making the video wait till giving the commands and moving to the next frame if the person of interest is not in the frame, with Ayush. | Should work on minimizing the errors. | Worked fine and then later code started giving errors. The ascii values of the keyboard letters giving different values. |
| 25 | 07/06/07 | Browsed about the ascii values of the keyboard letters and tried changed the code to minimize the errors by using the ‘ord’. | Should try to integrate it in the face recogniton and identification code. | The code is working OK. |
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