Ahmedabad University

CSE 541 Computer Vision
Weekly Report Progress

Topic - Person retrieval in surveillance videos using attribute recognition

Group name - Predictors_4.0

NAME	ENROLLMENT NUMBER
Zalak Shah	AU2040217
Freyal Shah	AU2040228
Khush Soni	AU2040239
Dhruvam Bhalodiya	AU2040031

Tasks performed this week:

Person detection is one of the components of object detection. Our task is to detect a person in images or video frames. We studied how object detection works and how it classifies the one ‘Person’ from other objects present in the frame.

We had a brief about Deep Learning and how it is used in person detection. We tried to understand the algorithm behind this.

Outcomes of the tasks performed.

Person detection is done in three steps from which we draw the algorithm:

- The first step involves separating objects from the background, that is removing the background.
- The objects are categorized based on their properties. For example, our class is “people” .
- This is followed by feature extraction. The length and width of the people are determined which helps to draw boundaries surrounding them.

We thus now have a basic idea about how the algorithm works.

Tasks to be performed in the upcoming week.

- Understanding the libraries that are used for object detection. Implementing the algorithms that will help us find ‘Person’ in the video frames.
- Then, seeing the accuracy of the algorithm and doing changes accordingly.