**GROUP NO. 9**

**Project Members:**

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**Title :**

Benefits of Monitoring the characteristics of Human in Shopping Complex.

**Abstract:**

CCTV systems are able to keep track of what is happening at the premises where they are installed. By monitoring the activity of visitors at any workspace, we can detect the physical traits of people such as height, whether they are going left or right. We can monitor the family or the group of people in which they are coming to the premise of the Shopping Complex. We can also detect the objects they are carrying or wearing such as (Handbags, Caps etc.) We can also Identify the child or adult on the basis of their height. Thus, we can analysis the behavior of the people coming to the Shopping Complex.

**History:**

We have learnt about the Object Detection in any Image or Video. Therefore, We are here planning to detect the family that are coming to Shopping Mall. We are also detecting the child or adult in any video with the help of the height of the people.

**Research Papers:**

1. Customer Mall Shopping Behavior: A Bibliometric Analysis

Link: <http://ii.tudelft.nl/pub/leon/266.pdf>

2) Customer Analysis via Video Analytics: Customer Detection with Multiple Cues

Link: <http://acta.uni-obuda.hu/Katanyukul_Ponsawat_74.pdf>

**Datasets:**

**Youtube Link:**

<https://www.youtube.com/watch?v=rfkGy6dwWJs>

**System Requirements:**

1. 8GB RAM
2. 1TB HDD
3. Any OS (Windows, Mac, Linux)

**Technologies:**

1. Python
2. OpenCV (Deep Learning)
3. Yolo (Deep Learning)