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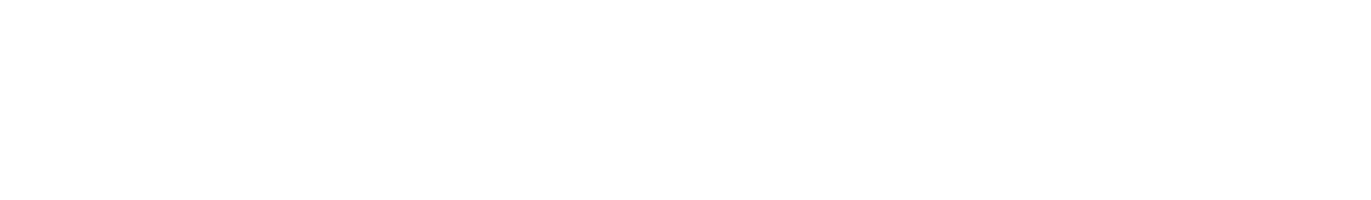
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DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

1. **Project Title:**

Real time human detection and counting

1. **Problem Statement:**

The main problem around us we can see is the ‘population problem’. And directly or indirectly this is causing chaos or traffic in any one or the other place. This so called chaos may sometimes even lead to quarrel or even suffocation sometimes.

1. **Project Scope and planning:**

In solution to our problem, we will build an AI and Machine Learning based model. This model will help us to easily get the population (no. of persons) or traffic criteria in any real time video of any place. Also we will get the idea of which area is more or less populated or trafficked as compared to normal traffic.

In this model will allow user to upload any real time video and model will show us the traffic condition of the area in video. This model will also give suggestion for future about what should be the normal traffic in that area. Thus like wise using this model one can take on control of traffic and which will prevent various chaos and accidents. And will also help to regulate traffic flow in that area.

1. **Task definition:**

The approach is that it can take in real time video or pre-recorded images. We would generate Crowd Report, which will give some message on the basis of the results we got from the detection process. For this we could take some threshold human count and give different message for different results of human count that we got form detection process.

1. **Requirements:**

* Opencv
* Imutils
* Numpy
* Argparse
* Hogsvm algo

# STUDENTS DETAILS

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **UID** | **Mobile Number** | **Signature** |
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# APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Signature (with Date)** |
| Parul(E12505) | Supervisor |  |
| Surender Singh(E8126) | Co-Supervisor |  |