**Computer Vision Project**

**Human Kinetics Detector & Counter**

**ELC Activity- 3rd Semester**

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*Introduction:* Computer Vision, today, is used all over the world by Businesses, Governments and Organisations for various large- scale applications; One of them being the ability to detect, track and count objects in Real Time. This project is focused on the implementation of fundamentals of Deep Learning Algorithms with Computer Vision.

*Working:* Using Deep Learning algorithms and OpenCV library, we have developed a Human Detector and Counter System that can be effortlessly and efficiently embedded into any device.

*Our approach includes-*

1. Deep Learning model to detect humans and their trajectory.
2. Using Neural Networks to focus on key areas of crowd.
3. On device Machine Learning and Local Storage of Sensitive Data.

*Applications:* Our Project can be used in-

1. Attendance for Schools/ Colleges/ Universities
2. Parking Lot People Counter
3. Limiting the number of attendees at an event. *E.g.-* *Suppose 100 people are invited at an event, then the counter will start to beep if the number of attendees exceeds 100.*

*Sample Images:*

