

Your Logo

Date//Time//Year

Prototype presentation

computer vision based smart parking system

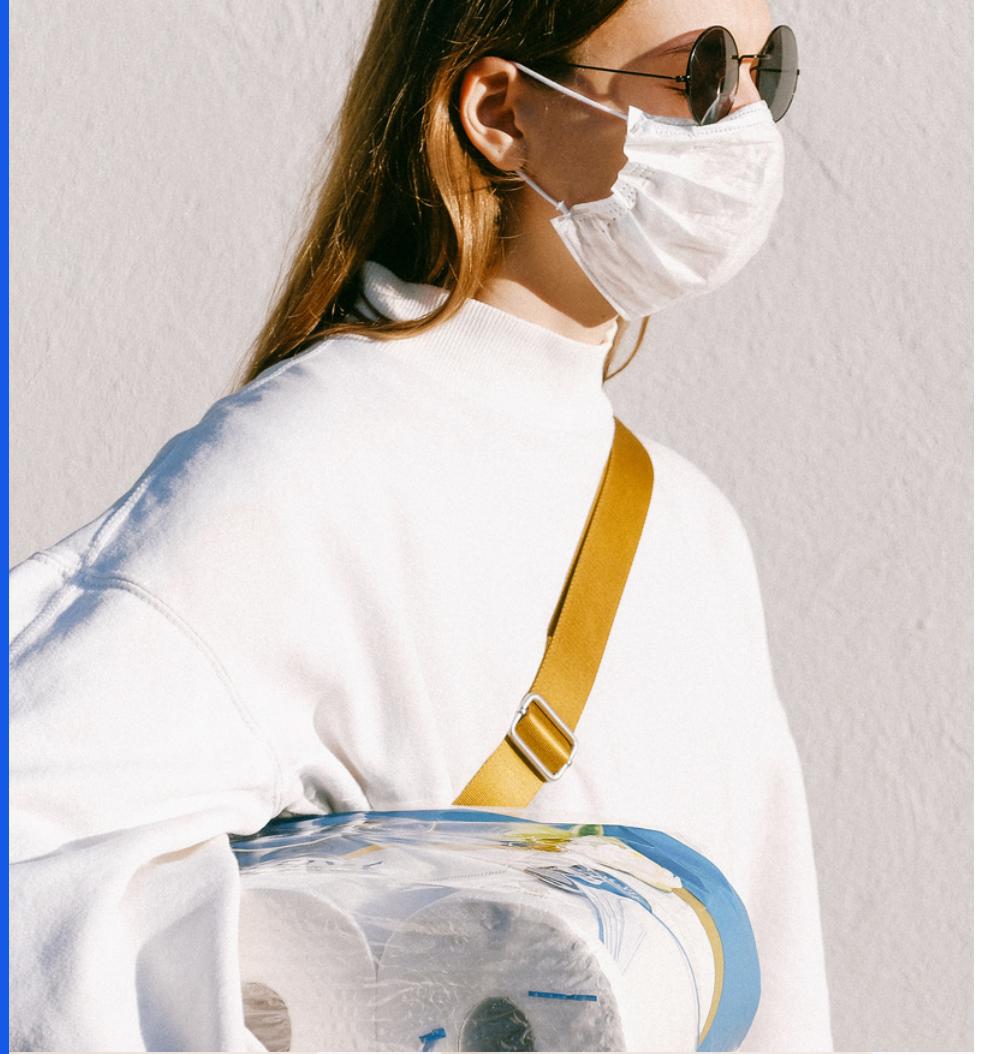




Background



Traffic congestion, crowdedness, air pollution and other problems of large cities are the reason we seek efficient solutions that could improve the quality of life. With the lack of parking lots in overcrowded places, you must have at one point come across an issue to find a vacant slot in the city center during business hours. The average search time could take from 10 to 20 minutes, not to mention extra liters of gas.



Problem Statement

To track the arrival and departure of vehicles at a location using cv

Project Overview



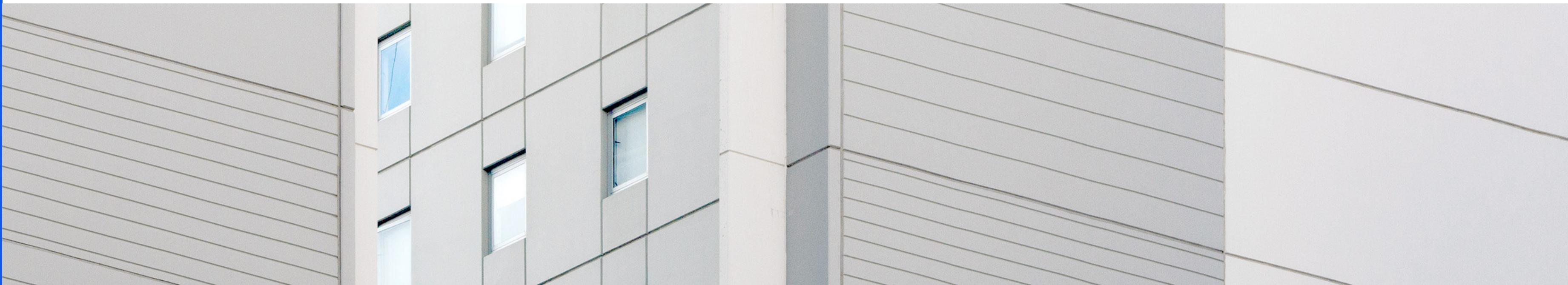
A computer vision and machine learning model would be created to detect the license plate of vehicles using the surveillance camera and the vehicle number would be extracted from the license plate this can be used for various purposes like authorizing vehicles, monitoring entry and exit time of the vehicle.

Project Details



technology stack :

- Front-end technologies: HTML, CSS, JavaScript, ReactJS, Bootstrap, Material UI
- Back-end technologies: Node.js, Express.js, Python, Flask
- Database: MongoDB, PostgreSQL
- Deep Learning



Use Case



- Can be used in warehouses for detection and verification of loading vehicles.
- Can be used for detecting the entry of any vehicle in the premises.
- Parking spaces can be pre-booked and assigned a slot digitally and the parking charges can be calculated on the basis of arrival and departure time of vehicles.

Vehicles can be verified during the entry without any human efforts.