

Ideation Phase
Define the Problem Statements

Date	17 May 2023
Team ID	NM2023TMID22560
Project Name	Project - AI Enabled Car Parking using openCV
Maximum Marks	2 Marks

AI Enabled Car Parking Using OpenCV

Drivers frequently struggle with parking in crowded urban areas. Consider the scenario where you are travelling to a mall during a busy period. You see the parking lot is filled and many other cars are circling the area in search of open spots as you get closer to the mall.

In the hopes of quickly finding a spot, you enter the queue of cars. But as time goes on, you notice that the parking lot is packed and that it's getting harder and harder to locate a spot. Knowing that you might be late for your appointment or lose out on a fantastic shopping opportunity, you start to feel annoyed and apprehensive.

A computer vision-based project called AI-enabled car parking with OpenCV tries to automate the parking procedure. The goal of the project is to create an intelligent system that can recognise vacant parking spaces and provide a count of the available places. The system records live video of the parking lot using a camera and the OpenCV (Open Source Computer Vision) framework.