Project Design Phase-I
Proposed Solution Template

Date	06 May 2023
Team ID	NM2023TMID01052
Project Name	Project- AI Enabled Car Parking using Open CV
Maximum Mark	2 Marks

Proposed Solution Template:

S.NO	Parameter	Description
1.	Problem Statement	Develop an AI-enabled car parking system using OpenCV that can accurately detect and track vehicles entering and exiting a parking lot, and provide real-time information aboutavailable parking spaces.
2.	Idea/Solution description	AI-based smart parking is an innovative parking solution that leverages data from different devices like sensors and cameras to form an AI-driven parking management system to detect the availability of parking spots.
3.	Noveity/Uniqueness	Inherent safety and security Compared to conventional parking garages, Automated Parking Systems are inherently much safer and more secure because they remove driving and pedestrians from the parking area. No driving means no car damage or possibility of stolen cars.
4.	Social Impact/Customer Satisfaction	Reduce search traffic for parking Smart parking helps combat this problem by reducing the number of vehicles driving slowly around the city looking for parking spaces. This ensures proper traffic flow, reducing congestion in cities with limited parking spaces.
5.	Business Model(revenue model)	AI-enabled car parking system using OpenCV can provide an efficient solution for car parking management, helping to optimize the usage of parking spaces, improve customer experience, and increase revenue for parking lot owners.

6.	Scalability of the solution	The AI-enabled car parking system using OpenCV is highly scalable and can be customized to accommodate parking lots of various sizes and types