Project Design Phase-I
Proposed Solution Template

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

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	AI Enabled Car Parking using openCV
2.	Idea / Solution description	The AI-enabled car parking system using OpenCV automates and optimizes parking by detecting vehicles, analyzing parking spaces, and providing real-time information to drivers. It improves parking efficiency, enhances the user experience, increases security, and provides data-driven insights for better resource management.
3.	Novelty / Uniqueness	Our AI-enabled car parking system using OpenCV stands out due to its real-time parking availability updates and computer vision-based vehicle detection, enabling efficient and convenient parking experiences while optimizing resource allocation.
4.	Social Impact / Customer Satisfaction	Our solution ensures customer satisfaction by providing real-time parking availability information and seamless navigation to available parking spaces, saving time and reducing frustration for drivers. Additionally, the integration of security features enhances the overall safety and peace of mind for customers.
5.	Business Model (Revenue Model)	Our business model involves providing the AI-enabled car parking system as a service to parking facility operators, charging a subscription or usage-based fee. Additionally, we can explore partnerships with commercial real estate companies or municipalities to implement the solution in their parking facilities.
6.	Scalability of the Solution	The solution is highly scalable as it can be deployed in parking facilities of varying sizes, from small parking lots to large multi-level garages. Additionally, the modular design allows for easy expansion and integration with existing parking management systems.