Project Design Phase-I
Proposed Solution
Template

Date	04 May 2023
Team ID	NM2023TMID06343
Project Name	Traffic Intelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	2 Marks

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)	Traffic volume estimation is a crucial component of transportation planning and management. Accurate and reliable estimation of traffic volume is essential for optimizing traffic flow, reducing congestion, and improving safety on roadways.
2.	Idea / Solution description	With the help of Machine Learning Techniques, we'll be able improve the efficiency of traffic management on the road, as well as improve the safety on the road.
3.	Novelty / Uniqueness	With the use of Regression Algorithms, we can create a unique System that can be used to find out the relationship between a single dependent variable (target variable) dependent on several independent ones, giving us a better and more accurate Estimation of the Volume of Traffic.
4.	Social Impact / Customer Satisfaction	Our projects serve two major services. First one, improved safety of drivers on the road, which is the most important thing and the Second being the reduction of congestion on the road as the number of vehicles on the road is increasing every day.
5.	Business Model (Revenue Model)	Traffic volume estimation can help logistics companies optimize their delivery routes and schedules, reducing transportation costs and improving delivery times as well as it can help retailers determine the best location for their stores, as well as the best times to stock their inventory and offer promotions.
6.	Scalability of the Solution	As the number of vehicles on the road is

		increasing exponentially as compared the amount of road where they can be driven, the Scope and Scalability of Traffic Volume Estimation is immense as it can process a large amount of data and handle a growing number of users, making it a reliable and effective solution.