## **Project Design Phase**

## **Proposed Solution Template**

Date	24 June 2025	
Team ID	LTVIP2025TMID35493	
Project Name	TrafficTelligence : Advanced Traffic Volume Estimation with Machine Learning	
Maximum Marks	2 Marks	

## **Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Urban areas face increasing traffic congestion, leading to delays, pollution, and stress. There is a need for intelligent, real-time traffic solutions that guide commuters efficiently.
2.	Idea / Solution description	TrafficTelligence is a smart traffic management system that uses machine learning and real-time data to predict traffic congestion, suggest optimized travel routes, and visualize trends via a user dashboard.
3.	Novelty / Uniqueness	The solution integrates real-time traffic APIs with AI-based route prediction and congestion forecasting. It offers personalized routing and visual analytics in one platform, unlike typical navigation apps.
4.	Social Impact / Customer Satisfaction	Reduces commute time, enhances road safety, and lowers fuel consumption and emissions. Citizens get timely, accurate traffic guidance, improving their quality of life.
5.	Business Model (Revenue Model)	Freemium model: Free for individuals; subscription-based access for government agencies, city planners, and logistics firms. Revenue from analytics dashboards and API access.
6.	Scalability of the Solution	Easily scalable to multiple cities by adapting to different traffic data sources. Can integrate IoT sensors, CCTV inputs, and cloud-based services for large-scale deployment.