

DEFINE PROBLEM STATEMENT

Date	22-06-2025
Team ID	LTVIP2025TMID40978
Project Name	Traffic intelligence
Maximum Marks	4 marks

PROBLEM STATEMENT

Traffic congestion is a major issue in rapidly growing urban areas, leading to increased travel times, higher fuel consumption, and elevated stress levels for commuters. Traditional traffic monitoring systems often react to traffic conditions rather than predict them, resulting in inefficient traffic management. There is a growing need for intelligent systems that can forecast traffic volume based on historical data and real-time inputs.

This project aims to develop a machine learning-based solution that can predict traffic volume using features such as time of day, weather conditions, and holiday status. By accurately forecasting traffic flow, the system can help traffic authorities, commuters, and smart city planners make proactive decisions, optimize traffic control strategies, and improve urban mobility.