

REQUIREMENT ANALYSIS

Solution Requirements

Date	27-06-2025
Team ID	LTVIP2025TMID45015
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	4 marks

Functional Requirements:

- The web application must:
 - Allow users to input 11 traffic-related features (time, weather, etc.)
 - Trigger the trained ML model and predict traffic volume instantly
 - Display results dynamically with contextual styling
 - Provide users with a smooth front-end experience
 - These are the Functional Requirements

All we want

Non-Functional Requirements:

- Fast, real-time response (< 2s latency)
- Clean and accessible UI (HTML/CSS + Bootstrap)
- Flask backend with modular codebase
- Mobile responsive layout
- Secure and lightweight hosting (optional cloud in future)