

Project Design Phase Solution Architecture

Date	26 June 2026
Team ID	LTVIP2025TMID35978
Project Name	Traffictelligence
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture Diagram:

Figure 1: Architecture and data flow of the Traffic Volume Estimation System

- User Interface (HTML/CSS) → Input Data (Weather, Time, Holiday) → Flask Backend → Preprocessing (ColumnTransformer, Scaler) → Machine Learning Model (RandomForestRegressor) → Output (Traffic Volume) → Display on Web Page



