

Project Design Phase-II

Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	LTVIP2025TMID36124
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation With Machine Learning
Maximum Marks	4 Marks

Data Flow Diagrams:

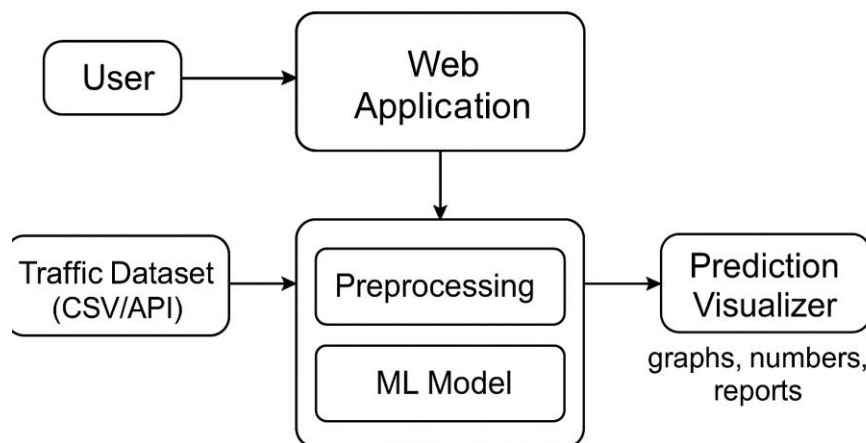
A Data Flow Diagram (DFD) is a visual representation of how data flows through a system. A Data Flow Diagram (DFD) shows how data flows through the TrafficTelligence system, from input to prediction and output display. Entities:

Entities:

- User
- Web Application (Flask/Django)
- ML Model
- Traffic Dataset (CSV/API)
- Prediction Visualizer

Data Flow Steps:

1. User uploads traffic data (CSV or API input).
2. Web Application validates and forwards data.
3. Preprocessing module cleans, normalizes, and extracts features.
4. ML Model receives processed input and predicts traffic volume.
5. Prediction Visualizer displays results as graphs, numbers, or downloadable reports.



TrafficTelligence

User Stories

Below are the user stories for the HematoVision application.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority & Release
Pathologist	Upload Traffic Data	USN-1	As a user, I can upload traffic datasets for analysis.	File is uploaded and validated successfully.	High, Sprint-1
Pathologist	Get Predictions	USN-2	As a user, I receive predicted traffic volume based on selected parameters.	Result is shown after upload and processing.	High, Sprint-1
Student	Learn Traffic Trends	USN-3	As a student, I can view visual patterns in traffic across times or locations.	System displays educational visualizations.	Medium, Sprint-2
Admin	Monitor Data Usage	USN-4	As an admin, I can see logs of data Upload and models.	Admin dashboard updates with user activity logs.	Low, Sprint-3
Doctor	Export Traffic Report	USN-5	As an user, I can export traffic analysis reports as CSV	Report downloads successfully.	Medium, Sprint-3