

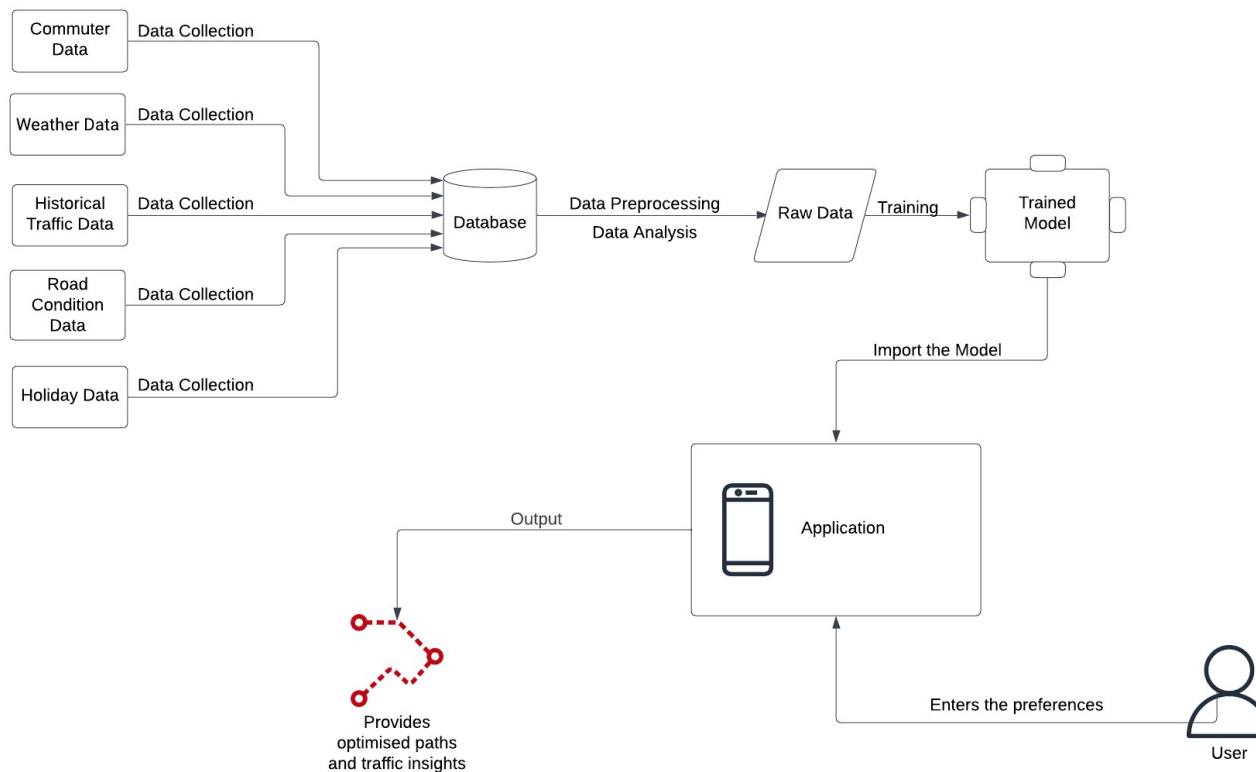
Project Design Phase-II

Data Flow Diagram & User Stories

Project Name

TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning

Data Flow Diagrams:



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Individual Commuters	Traffic Prediction	USN-1	As a commuter, I want to receive accurate traffic volume predictions for my route.	The system provides real-time traffic volume predictions based on historical data, weather conditions, and road conditions. Predictions are updated at least every 5 minutes.	High	Version 1
Commuters	User-Friendly Interface	USN-2	As a commuter, I want an easy-to-use and intuitive mobile app for accessing traffic predictions and alerts.	The app features a clean and user-friendly design. I can easily set up my commute and preferences within the app.	High	Version 1
Commuters	Notifications and Alerts	USN-3	As a commuter, I want to receive notifications and alerts for accidents, road closures, or other incidents affecting my commute.	I receive real-time alerts for incidents on my chosen route. Alerts are sent via the mobile app.	High	Version 1
Individual Commuter	Feedback and Issue Reporting	USN-4	As an individual commuter, I want to provide feedback and report issues with traffic predictions.	- Users can submit feedback or report inaccuracies through the interface. - The support team responds to issues promptly.	Medium	Version 1
City Planners	Traffic Management Insights	USN-5	As a city planner, I want access to actionable data for more efficient traffic management	The system provides insights into traffic patterns and suggests improvements.	High	Version 1
City Planners	Integration with City Systems	USN-6	As a city planner, I want to integrate the traffic system with our city's traffic management tools.	The system seamlessly integrates with our existing tools.	High	Version 1

City Planners	Data Export	USN-7	As a city planner, I want the ability to export traffic data for further analysis and reporting.	The system allows me to export data in standard formats (CSV, JSON, etc.). Exported data includes historical and real-time traffic information.	Medium	Version 2
All Users	Scalability and Cloud Infrastructure	USN-8	As a user, I expect the system to handle increased data volumes as the user base grows.	The system scales smoothly with the growing user base. Cloud-based infrastructure ensures reliability.	High	Version 1
All Users	Subscription Plans	USN-9	As a user, I want options for subscription plans, including free access and premium features.	Users can choose from tiered subscription plans. - Premium features are clearly defined.	Medium	Version 1
All Users	Partnership Integration	USN-10	As a user, I want to see integration with navigation and transportation companies for added functionality.	Integration with partner services is seamless and enhances the user experience.	Low	Version 2
All Users	Adaptability to Different Cities	USN-11	As a user, I expect the system to be adaptable to various cities for expansion.	The system can be easily configured for different regions and markets.	Medium	Version 2