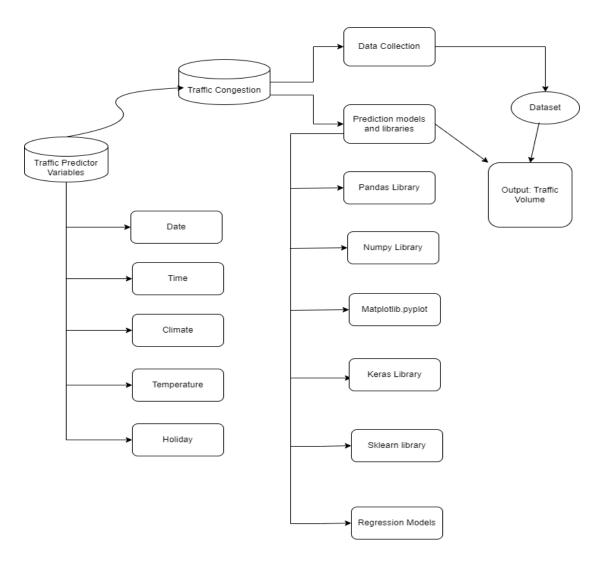
## **Project Design Phase**

## **Data Flow Diagram & User Stories**

Date	20 June 2025	
Team ID	Team ID : LTVIP2025TMID42390	
Project Name	TrafficTelligence : Advanced Traffic Volume Estimation with Machine Learning	
Maximum Marks	4 Marks	

## **Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



## **User Stories**

User Type	Functiona I Requirement (Epic)	User Stor y Num ber	User Story / Task	Acceptance criteria	Prior ity	Rele ase
Traffic Manager	Real-time Traffic Estimation	USN-1	As a Traffic Manager, I want to access real- time traffic volume estimations to make informed decisions for traffic control.	System provides accurate realtime traffic volume predictions. Data updates occur at least every 5 minutes. Data accuracy is within a 95% confidence interval.	High	Sprin t 1
Driver	Real-time Traffic Estimation	USN-2	Application suggests a approximate congestion in the route.	Application suggests an approximate congestion in the route.	High	Sprin t 1
Traffic Ana lyst	Data Insights on congestion volume	USN-3	As a Traffic Analyst, I want a Volume number displaying in-depth traffic insights for informed analysis and decision-making.	Volume number showcases traffic trends over various timeframes.	Medi um	Sprin t 2
Website Dev elop er	Model building	USN-4	As an Web Developer, I want access to models that integrate TrafficTelligence data for incorporation into existing navigation applications.	Models provide accurate traffic data. Well- documented Models for easy integration. Allows access to real-time and predictive traffic estimations.	High	Sprin t 2
City Planner	Customizable Traffic Solutions	USN-5	As a City Planner, I want customizable traffic solutions to accommodate specific city development needs.	System allows adjustments to traffic control strategies. Customization based on specific traffic conditions.	High	Sprin t 3
Educational Institutions	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	we could do testing	medi um	Sprin t 4
	Testing & quality assurance	USN-7	conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	we could create web applicati on	medi um	Sprin t 5



