

## PROJECT PLANNING & SCHEDULING

### Project Planning (Agile Methodologies)

Date	29-06-2025
Team ID	LTVIP2025TMID45015
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	5 marks

Objective: To efficiently manage the development of the TrafficTelligence system using Agile methodologies, enabling iterative development, feedback incorporation, and consistent performance improvements.

### Sprint Planning

Sprint	Activities
Sprint 1	Data collection, data preprocessing, feature engineering, model training
Sprint 2	Build Flask backend, connect model with Flask, test prediction pipeline
Sprint 3	Front-end development (index.html, final.html), integration & optimization
Sprint 4	Final documentation, demo video recording, GitHub repo setup & deployment

### Task Allocation

Task	Assigned To
Data Preprocessing	Kanaparthi Sai Krishna Kaushik Reddy

ML Model Building	Kanaparthi Sai Krishna Kaushik Reddy
Flask Backend	Kanaparthi Sai Krishna Kaushik Reddy
UI/UX Design (HTML)	Kanaparthi Sai Krishna Kaushik Reddy
Testing & Debugging	Kanaparthi Sai Krishna Kaushik Reddy
Deployment & Docs	Kanaparthi Sai Krishna Kaushik Reddy

Timeline & Milestones

Week	Tasks & Deliverables
Week 1	Data preprocessing, model building, feature extraction
Week 2	Flask routing, integration with model, HTML page design
Week 3	System testing, UI polishing, debugging
Week 4	Documentation, GitHub hosting, screen recording for demo

Project Tracker & Velocity

Sprint	Story Points	Duration	Start Date	End Date	Completed	Release Date
Sprint 1	20	6 Days	01 July	06 July	20	06 July
Sprint 2	20	6 Days	07 July	12 July	20	12 July
Sprint 3	20	6 Days	13 July	18 July	20	18 July
Sprint 4	20	6 Days	19 July	24 July	20	24 July

**Average Velocity:**  $AV \text{ (story points/day)} = 20 / 6 = 3.33 \text{ story points/day}$

**Burndown Chart:** Sprint 1 Example

Day	Remaining Story Points
Day 0	20
Day 1	16.67
Day 2	13.34
Day 3	10.01
Day 4	6.68
Day 5	3.35
Day 6	0