Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	17 july 2025
Team ID	Team -LTVIP2025TMID32700
Project Name	TrafficTelligence : Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	20 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the project	1	High	sharmasbee
Sprint-2	Data collection	USN-2	Gather a diverse dataset of Date, time, holidays and climatic conditions.	2	High	tafazzu
Sprint-2	data preprocessing	USN-3	Preprocess the collected dataset by removing outliers and null values etc. Explore and evaluate different deep learning architectures (e.g., Regressions) to select the most suitable model for the project.	3	High	tafazzul
Sprint-3	model development	USN-4	train the selected machine learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	aslam
Sprint-3	Training	USN-5	The data set will be trained with suitable algorithms to improve the robustness and accuracy.	6	medium	sai prassanna
Sprint-4	model deployment & Integration	USN-6	deploy the trained machine learning model as a web service to make it accessible for users. Integrate the model's API into a user-friendly web interface for users to input variables such as date, time, holidays etc and receive predicted volume results.	1	medium	guna shekar
Sprint-5	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.	1	medium	pavan kumar

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	1	3 Days	15 june 2025	17 june 2025	1	6 Nov 2023
Sprint-2	5	2 Days	18 june 2025	20 june 2025	5	8 Nov 2023
Sprint-3	10	5 Days	21 june 2025	26 june 2025	10	13 Nov 2023
Sprint-4	1	5 Days	27 june 2025	2 july 2025	1	20 Nov 2023
Sprint-5	1	4 Days	3 july 2025	7 july 2025	1	21 Nov 2023

Velocity:

Imagine we have a 29-days sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

AV= 19/3.8 = 5

Burndown Chart:

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.
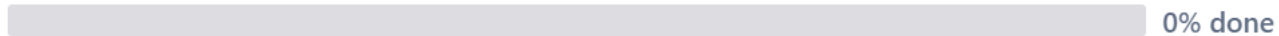
https://www.visual-paradigm.com/scrum/scrum-burndown-chart
/ https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:
https://www.atlassian.com/agile/project-management
https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-softwar
e https://www.atlassian.com/agile/tutorials/epics
https://www.atlassian.com/agile/tutorials/sprints
https://www.atlassian.com/agile/project-management/estimation
https://www.atlassian.com/agile/tutorials/burndown-charts

Burndown Chart: For the 5th Sprint

Sprint progress   ❓ ⌄

0% done

Done	In progress	Not started
0%	0%	100%

Sprint burndown   ❓ ⌄

0 points done, 1 point to go

● Remaining work   ● Guideline

Your sprint scope has increased by **1 point**   ℹ

Added	Removed	Modified
0 points	**0** points	**+1** point
⬆ 1 issue	⬇ 0 issues	⚠ 1 issue

Board section.

We have completed till sprint 2.

Backlog section

AIML Project
Software project

You're on the Free plan

⬆ UPGRADE

PLANNING

⬡ Timeline

▦ Backlog

▥ Board

＋ Add view

DEVELOPMENT

</> Code

▤ Project pages

▣ Add shortcut

⚙ Project settings

Projects / AIML Project

Backlog

⤢ ⋯

🔍 SJ RV 👥 Invite   Epic ⌄   ☁ Import work   📈 Insights   ⚙ View settings

Epic	✕
Issues without epic	

> 🟪 Project setup & Infrastructure

> 🟪 Data collection

> 🟪 Data Preprocessing

> 🟪 Model Development

> 🟪 Training

> 🟪 Model deployment & Integration

> 🟪 Testing & quality assurance

＋ Create epic

⌄ **AP Sprint 4** 13 Nov – 18 Nov (1 issue)   1 0 0   **Start sprint** ⋯

🔖 AP-16 Deploy the trained machine learning model as a web service to make it accessible fo...   MODEL DEPLOYMENT ...   TO DO ⌄   1   SJ

＋ Create issue

⇕   1 issue   Estimate: 1

⌄ **AP Sprint 5** 18 Nov – 22 Nov (1 issue)   1 0 0   **Start sprint** ⋯

🔖 AP-17 Conduct thorough testing of the model and web interface to identify and report any...   TESTING & QUALITY AS...   TO DO ⌄   1   RV

＋ Create issue

⇕   1 issue   Estimate: 1

⌄ **Backlog** (0 issues)   0 0 0   **Create sprint**

Your backlog is empty.

＋ Create issue

Timeline

AIML Project
Software project

You're on the Free plan

⚡ UPGRADE

PLANNING

🔀 Timeline

📋 Backlog

▦ Board

➕ Add view

DEVELOPMENT

`</>` Code

📄 Project pages

➕ Add shortcut

⚙ Project settings

Projects / AIML Project

Timeline

📢 Give feedback   🔗 Share   ⬆ Export   ⋯

🔍 [search]   SJ RV FM P 👤 👤⁺   Status category ⌄   Epic ⌄   ⚙ View settings

		T	NOV	DEC	JAN '24	FEB '24
Sprints			AP... AP... AP ...			
> ⚡ AP-1 Project setup & Infrastructure			▪			
> ⚡ AP-3 Data collection			▪			
> ⚡ AP-6 Data Preprocessing			▪			
> ⚡ AP-9 Model Development			▪			
> ⚡ AP-12 Training			▪			
> ⚡ AP-13 Model deployment & Integration			▪			
> ⚡ AP-14 Testing & quality assurance			▪			
➕ Create Epic						