

TrafficTelligence: Sprint Planning Logic

Key Concepts

- *Sprint:* A fixed duration (5 days) during which the team completes defined tasks.
- *Epic:* A large goal or project that spans multiple sprints (e.g., "Traffic Data System Setup").
- *Story:* A smaller, actionable task under an Epic.
- *Story Point:* A numerical estimate of effort, based on complexity (uses Fibonacci scale):
 - *1* – Very Easy
 - *2* – Easy
 - *3* – Moderate
 - *5* – Difficult

Sprint 1: (5 Days)

Epic: Traffic Data Collection & Preprocessing

1. Data Collection

- *Collecting Traffic Camera Feeds* – *Story Point: 2*

Description: Gather live or recorded feeds from city intersections, highways, and traffic sensors.

- *Loading Data into System* – *Story Point: 1*

Description: Store collected feeds into the data warehouse or cloud storage.

2. Data Preprocessing

- *Handling Missing Values* – *Story Point: 3*

Description: Address missing or corrupted video frames, GPS points, or sensor data.

- *Encoding Categorical Variables* – *Story Point: 2*

- *Sprint 1* = 8 points
- *Sprint 2* = 16 points
- *Total = 24 points over 2 sprints*

Velocity = Total Story Points / Number of Sprints = 24 / 2 = 12

Sprint Planning – TrafficTelligence

Definitions:

- *Sprint:* A fixed 5-day period to complete key tasks.
- *Epic:* A major goal like "Traffic Data Pipeline Setup"
- *Story:* A small, actionable task within an epic
- *Story Point:* Effort estimate (1=Very Easy, 5=Difficult)

Sprint 1: (5 Days)


Epic: Traffic Data Collection & Preprocessing

Data Collection

- Collecting Traffic Camera Feeds *(2)*
- Loading Data into System *(1)*

Data Preprocessing

- Handling Missing Data (e.g., frame drops) *(3)*
- Encoding Categorical Data (e.g., road type, time of day) (2)



This is a well-structured sprint plan! Here's a quick breakdown:

Sprint 1 (5 Days) – Total 8 Story Points

- Data Collection:

- Collection of Data – 2
- Loading Data – 1

- Data Preprocessing:

- Handling Missing Values – 3
- Handling Categorical Values – 2

Sprint 2 (5 Days) – Total 16 Story Points

- Model Building:

- Model Building – 5
- Testing Model – 3

- Deployment:

- Working HTML Pages – 3
- Flask Deployment – 5