

Sprint Planning for TrafficTelligence

◆◆ Epic 1: Data Preparation

Sprint 1: (5 Days)

Story 1.1: Collection of traffic, weather, and event datasets – **3 SP (Moderate task)** **Story 1.2:** Data Cleaning – missing values, outliers – **3 SP (Moderate task)** **Story 1.3:** Feature Engineering (e.g., time-based, location-based features) – **5 SP (Difficult task)** **Story 1.4:** Data Normalization & Encoding – **2 SP (Easy task)**

◆◆ Sprint 1 Total Story Points = 13

◆◆ Epic 2: Model Development and Evaluation

Sprint 2: (5 Days)

Story 2.1: Train-Test Split & Data Pipeline Setup – **3 SP (Easy task)**
Story 2.2: Model Training (ML Algorithms) – **4 SP (Difficult task)**
Story 2.3: Hyper parameter Tuning & Evaluation – **2 SP (Moderate task)** **Story 2.4:** Save & Export the Model – **1 SP (Very Easy task)**
Story 2.5: Visualizations for model results (charts/graphs) – **4 SP (Moderate task)**

◆◆ Sprint 2 Total Story Points = 14

◆◆ Epic 3: Web Interface & Deployment

Sprint 3: (5 Days)

Story 3.1: Design HTML interface for user input & output – **3 SP (Moderate task)** **Story 3.2:** Flask app development (Backend Integration) – **4 SP (Difficult task)** **Story 3.3:** Integration of model into Flask pipeline – **3 SP (Moderate task)** **Story 3.4:** Hosting the Web App (e.g., on Heroku/Render) – **3 SP (Easy task)**

◆◆ Sprint 3 Total Story Points = 13

Summary

| Sprint | Total Story Points |
|--------------|--------------------|
| Sprint 1 | 13 |
| Sprint 2 | 14 |
| Sprint 3 | 13 |
| Total | 40 SP |

✓ **Velocity = Total Story Points / Number of**

Sprints → **Velocity = 40 / 3 = 13.33 SP per Sprint**