Agile Sprint Planning

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| Date | 18 jun 2025 |
| Team ID | LTVIP2025TMID32673 |
| Project Name | Sustainable Smart City Assistant AI by using IBM granite LLM |
| Planning Methodology | Agile – Sprint-based delivery using Epics, Stories, and Story Points (Fibonacci Series) |

**Definitions Recap**

- **Epic** – A large user story that can be broken down into smaller Stories.

- **Story** – A specific task with a goal.

- **Story Points** – Measure of effort (1, 2, 3, 5, 8...)

- **Sprint** – 5-day development cycle

- **Velocity** – Avg. story points completed per sprint

**Sprint 1 – Data Layer Setup & Preprocessing (5 Days)**

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| **Epic** | **Story** | **Story Points** |
| Data Collection | Collection of Smart City Data | 2 |
| Data Collection | Loading Data to System | 1 |
| Data Preprocessing | Handling Missing Values | 3 |
| Data Preprocessing | Handling Categorical Values | 2 |

Total Story Points: 8

**Sprint 2 – Model Development & Deployment (5 Days)**

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| Epic | Story | Story Points |
| Model | Granite model | 5 |
| Model Building | Model Testing | 3 |
| Deployment | Developing Streamlit Interfaces | 3 |
| Deployment | Flask-based App Deployment( FastAPI) | 5 |

Total Story Points: 16

**Velocity Calculation**

Total Story Points: 8 (Sprint 1) + 16 (Sprint 2) = 24

Number of Sprints: 2

Velocity = 24 ÷ 2 = 12 Story Points per Sprint

**Forecast**

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| Sprint No. | Objective | Story Points | Outcome |
| Sprint 1 | Data Acquisition & Preprocessing | 8 | Cleaned, structured smart city dataset |