**Project Planning Logic**

**📅 Project Start Date: 20th June 2025**

**🛠️ Agile Framework: 2 Sprints (2 working days each)**

* **Sprint 1:** June 20–June 21, 2025
* **Sprint 2:** June 22–July 23, 2025

**🚀 Epic 1: Data Preparation and Analysis**

**Sprint 1: June 20–June 21, 2025**

| **Story** | **Story Points** | **Difficulty** |
| --- | --- | --- |
| Collect sustainability datasets | 2 | Easy |
| Load datasets into environment | 1 | Very Easy |
| Handle missing values | 3 | Moderate |
| Encode categorical values | 2 | Easy |

✅ **Total Story Points Sprint 1:** 8

**🧠 Epic 2: Model Development and Deployment**

**Sprint 2: June 22–July 23, 2025**

| **Story** | **Story Points** | **Difficulty** |
| --- | --- | --- |
| Build ML model (e.g., RAG, Recycle Manager) | 5 | Difficult |
| Test model with scenarios | 3 | Moderate |
| Design working HTML UI pages | 3 | Moderate |
| Deploy app with FAST API | 5 | Difficult |

✅ **Total Story Points Sprint 2:** 16

**📊 Velocity Calculation**

| **Metric** | **Value** |
| --- | --- |
| Sprint 1 Points | 8 |
| Sprint 2 Points | 16 |
| **Total Points** | **24** |
| **Number of Sprints** | **2** |
| **Velocity** | **12 story points/sprint** |

**📌 Summary**

* 🧩 **Epics:**
  + Epic 1: Data Pipeline Setup
  + Epic 2: Model Deployment & UI Integration
* ⏳ **Duration:** 2 Weeks (10 working days)
* ⚙️ **Velocity:** 12 points/sprint (Team capacity baseline)
* 📈 **Next Planning:** Use this velocity to estimate remaining features (like Image Gen, Problem and Solutions Using RAG, Dashboards) for further sprints.