Agile Sprint Summary for Data Science Project

Agile Terminology Overview

- **Sprint**: A fixed duration (usually 5–10 days) during which a team works to complete a defined set of tasks.
- **Epic**: A large, high-level task or project that is too big to complete in a single sprint. It is broken down into smaller, manageable **Stories**.
- **Story**: A smaller, actionable task that contributes to completing an Epic. Stories are designed to be completed within a single sprint.
- **Story Point**: A unit of measure for estimating the effort required to complete a Story. Typically, Story Points follow the Fibonacci sequence (1, 2, 3, 5, 8...) to reflect the increasing complexity and effort.
    - **1** – Very Easy Task
    - **2** – Easy Task
    - **3** – Moderate Task
    - **5** – Difficult Task

Sprint Breakdown

Sprint 1 (Duration: 5 Days)

Epic: Data Preparation
Stories and Story Points:

- **Data Collection**
    - Collection of Data – **2** (Easy)
    - Loading Data – **1** (Very Easy)
- **Data Preprocessing**
    - Handling Missing Values – **3** (Moderate)
    - Handling Categorical Values – **2** (Easy)

Total Story Points for Sprint 1: **8**

difficult

Sprint 2 (Duration: 5 Days)

Epic: Model Development and Deployment
Stories and Story Points:

- **Model Building**
  - Model Building – **5** (Difficult)
  - Testing Model – **3** (Moderate)
- **Deployment**
  - Working HTML Pages – **3** (Moderate)
  - Flask Deployment – **5** (Difficult)

Total Story Points for Sprint 2: **16**

Velocity Calculation

- **Total Story Points Completed**: 8 (Sprint 1) + 16 (Sprint 2) = **24**
- **Number of Sprints**: **2**
- **Velocity** = Total Story Points / Number of Sprints
  = 24 / 2
  = **12 Story Points per Sprint**

Conclusion

Your team's **average velocity** is **12 Story Points per Sprint**. This metric provides a useful benchmark for planning future sprints and forecasting project timelines. As the team continues working, velocity can help in identifying capacity, adjusting workloads, and ensuring consistent delivery.