## **Agile Sprint Summary for Data Science Project**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID59952 |
| Project Name | SmartSDLC – AI-Enhanced Software Development Lifecycle |
| Maximum Marks | 5 Marks |

### **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**

#### **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.