**Agile Sprint Planning and Velocity Summary**

**Key Agile Terms**

* Sprint: A fixed period or duration (typically 5–10 days) during which a team works to complete a specific set of tasks or stories.
* Epic: A large, overarching task or project that is too complex to complete in a single sprint. It is broken down into smaller, manageable pieces called *stories*.
* Story: A small, well-defined task that contributes to completing an Epic. Stories are short-term, actionable goals.
* Story Point: A unit of measure that represents the effort required to complete a story. Story points often follow the Fibonacci series (1, 2, 3, 5, 8...) to reflect increasing complexity.

**Story Point Guide:**

| **Story Point** | **Complexity** |
| --- | --- |
| 1 | Very Easy task |
| 2 | Easy task |
| 3 | Moderate task |
| 5 | Difficult task |

**Sprint Breakdown**

**Sprint 1 (Duration: 5 Days)**

Epic: Data Collection

* Collection of Data — 2 Story Points
* Loading Data — 1 Story Point

Epic: Data Preprocessing

* Handling Missing Values — 3 Story Points
* Handling Categorical Values — 2 Story Points

Total Story Points for Sprint 1: 8

**Sprint 2 (Duration: 5 Days)**

Epic: Model Building

* Model Building — 5 Story Points
* Testing Model — 3 Story Points

Epic: Deployment

* Working HTML Pages — 3 Story Points
* Flask Deployment — 5 Story Points

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  
Velocity = 24 ÷ 2 = 12

our team’s velocity is 12 Story Points per Sprint