

Agile Concepts

- **Sprint:** A fixed duration in which work is completed (here: 5 Days)
  - **Epic:** A large task, divided across sprints
  - **Story:** A smaller task under an epic, estimated using story points
  - **Story Points:** A unit to estimate effort — based on Fibonacci scale:
    - 1 = Very Easy
    - 2 = Easy
    - 3 = Moderate
    - 5 = Difficult
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Sprint Breakdown

Sprint 1: Data Handling (Duration: 5 Days)

Epic	Task (Story)	Story Points	Difficulty Level
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		8 Points	

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Sprint 2: Model & Deployment (Duration: 5 Days)

Epic	Task (Story)	Story Points	Difficulty Level
Model Building	Build the Model	5	Difficult
	Model Testing & Metrics	3	Moderate
Deployment	Working HTML Pages	3	Moderate
	Flask Integration	5	Difficult
Total		16 Points	

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## Velocity Calculation

### **Sprint   Story Points**

Sprint 1 8

Sprint 2 16

**Total   24**

- **Velocity** = Total Story Points / Number of Sprints =  $24 / 2 = 12$  **Points per Sprint**

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### **Summary for Submission**

- **Total Sprints:** 2
- **Total Story Points:** 24
- **Team Velocity:** 12 Story Points per Sprint
- **Completion Duration:** 10 Days (2 Sprints × 5 Days)