Agile Planning for Pattern Sense: Classifying Fabric Patterns using Deep Learning

Basic Definitions

 Sprint: A fixed duration (5 days in this case) where the team completes a set of tasks.
 Epic: A large feature or project deliverable, broken down into smaller tasks (Stories).
 Story: A small, actionable task that contributes to an Epic.
 Story Point: Effort estimate using Fibonacci scale (1, 2, 3, 5, 8, etc.), representing task complexity and time.

| **Story Point Reference:** |
| Very Easy = 1 Point |
| Easy = 2 Points |
| Moderate = 3 Points |
| Difficult = 5 Points |

Sprint 1 (5 Days)

Epic: Data Preparation

Story	Story Points
Collection of Fabric Pattern Data	2 (Easy Task)
Loading Data into System	1 (Very Easy Task)
Handling Missing Values	3 (Moderate Task)
Handling Categorical Values	2 (Easy Task)

Total Story Points for Sprint 1 = 8

Sprint 2 (5 Days)

Epic: Model Development & Deployment

Story	Story Points
Model Building (Deep Learning)	5 (Difficult Task)
Testing Model Performance	3 (Moderate Task)
Designing Working HTML Pages	3 (Moderate Task)
Flask Deployment of Model	5 (Difficult Task)

Total Story Points for Sprint 2 = 16

Velocity Calculation

Velocity Formula:

```
Velocity = Total Story Points Completed / Number of Sprints
```

| **Sprint 1 Story Points:** 8
| **Sprint 2 Story Points:** 16
| **Total Story Points:** 24
| **Number of Sprints:** 2

```
Velocity = 24 / 2 = 12 Story Points per Sprint
```

 Your Team's Velocity = 12 Story Points per Sprint

Summary

 Team works in 5-day sprints
 Tasks estimated using Fibonacci-based Story Points
 Two Epics: Data Preparation & Model Development
 Team's Average Velocity: 12 Story Points per Sprint