Agile Planning – Startup Success Prediction Project

A **Sprint** is a fixed period of time in which a team works to complete a set of tasks.

An **Epic** is a large task or feature that cannot be completed in a single sprint. It is divided into smaller tasks called stories.

A **Story** is a small, manageable task that contributes to completing an epic.

A **Story Point** represents the effort required to complete a story (usually estimated using Fibonacci series).

- 1 – Very Easy task
- 2 – Easy task
- 3 – Moderate task
- 5 – Difficult task

This document outlines the sprint-wise planning, epics, stories, and effort estimation for the ML-based Startup Success Prediction System.

❖ **Sprint 1 (5 Days) – Data Preparation & Analysis**

Task	**Story Point**	**Description**
Collect Startup Dataset	2	Gather startup data including funding, category, location, and status
Data Cleaning & Preprocessing	3	Handle missing values, remove irrelevant columns, and encode features
Exploratory Data Analysis (EDA)	2	Perform visualization and statistical analysis to understand patterns
Train-Test Splitting	1	Split data into training and testing sets for model evaluation

➞ **Total = 8 Story Points**

❖ **Sprint 2 (5 Days) – Model Building & Deployment**

Task	**Story Point**	**Description**
Model Building	5	Train machine learning models (Random Forest, Logistic Regression, etc.)
Model Testing & Evaluation	3	Evaluate using accuracy, confusion matrix, precision, recall, and F1-score
Create Web Interface (HTML)	3	Build a simple UI for user input and prediction display
Deploy with Flask	5	Integrate model with Flask and deploy application

➞ **Total = 16 Story Points**

📊 **Velocity Calculation**

Total Story Points = 8 (Sprint 1) + 16 (Sprint 2) = **24**

Number of Sprints = **2**

Velocity = 24 / 2 = 12 Story Points per Sprint

➞ Team velocity = **12 Story Points per Sprint**