

Prosperity Prognosticator – ML for Startup Success Prediction

A Sprint is a fixed period during which the team works to complete a set of defined tasks related to startup success prediction model development.

An Epic is a major phase of the project such as Data Collection, Model Development, or Deployment. It is divided into smaller Stories.

A Story is a small task under an Epic.

A Story Point represents the effort required to complete a story (Fibonacci series: 1,2,3,5).

Very Easy task

Normal task

Moderate task

Difficult task

Storypoint -5 (1,2,3,5)

Sprint 1

Data Collection (Epic 1)

- Collect Startup Dataset (USN1) – 3
- Collect Funding Data (USN2) – 2
- Collect Market Trend Data (USN3) – 2

Data Preparation (Epic 2)

- Handling Missing Values (USN4) – 3
- Encoding Categorical Variables (USN5) – 3
- Feature Engineering (USN6) – 5

Total Story Points in Sprint 1 =

$$3 + 2 + 2 + 3 + 3 + 5 = 18$$

Sprint 2

Model Development (Epic 3)

- Logistic Regression Model (USN7) – 3
- Random Forest Model (USN8) – 5
- XGBoost Model (USN9) – 5

Model Evaluation (Epic 4)

- Accuracy & Confusion Matrix (USN10) – 2
- Precision, Recall, AUC (USN11) – 3

Visualization & Dashboard (Epic 5)

- Success Probability Dashboard (USN12) – 5

Total Story Points in Sprint 2 =

$$3 + 5 + 5 + 2 + 3 + 5 = 23$$

Total Story Points

Sprint 1 = 18

Sprint 2 = 23

Total Story Points = $18 + 23 = 41$

Number of Sprints = 2

Velocity = Total Story Points Completed / Number of Sprints

Velocity = $41 / 2$

Velocity = **$20.5 \approx 20$ Story Points per Sprint**