

A Sprint fixed period or duration in which a team works to complete a set of tasks

An Epic is a big task or project that is too large to complete in one sprint. It is broken down into smaller tasks (stories) that can be completed over multiple sprints.

A Story is a small task. It is part of an Epic.

A Story Point is a number that represents how much effort a story takes to complete.  
(usually in form of Fibonacci series)

1- Very Easy task

2- Normal task

3- Moderate task

5- Difficult task

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

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## Sprint 1

Data Collection (Epic 1)

Gathering Weather Dataset (USN1) 2

Loading Dataset using Pandas (USN2) 1

Understanding Dataset Structure (USN3) 2

Data Preparation (Epic 2)

Handling Missing Values (USN4) 3

Encoding Categorical Variables (USN5) 3

Feature Selection (USN6) 2

Train-Test Split (USN7) 1

Model Building (Epic 3)

Training RandomForest Model (USN8) 3

Saving Model & Scaler (USN9) 1

Total Story Point in Sprint 1 =

$2 + 1 + 2 + 3 + 3 + 2 + 1 + 3 + 1 = 18$

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## Sprint 2

Model Evaluation (Epic 4)

Confusion Matrix (USN10) 2

ROC Curve & AUC (USN11) 2

Accuracy, Precision, Recall (USN12) 2

## Web Application Development (Epic 5)

Creating Flask App (USN13) 3

Designing HTML Form (USN14) 2

Connecting Model to Backend (USN15) 3

Displaying Prediction Result (USN16) 2

## Deployment (Epic 6)

Creating Virtual Environment (USN17) 1

Saving Requirements File (USN18) 1

Running Application on Localhost (USN19) 2

Total Story Point in Sprint 2 =

$2 + 2 + 2 + 3 + 2 + 3 + 2 + 1 + 1 + 2 = 20$

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Total Story Points

Sprint 1 = 18

Sprint 2 = 20

Total Story Points =  $18 + 20 = 38$

No of Sprints = 2

Velocity = Total Story Points Completed / Number of Sprints

Velocity =  $38 / 2$

19 (Story Points per Sprint)