**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

|  |  |
| --- | --- |
| Date | 20 June 2025 |
| Team ID | LTVIP2025TMID37335 |
| Project Name | pattern sense: classifying fabric patterns using deep learning |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation:**

**Functional User Story Story Team Sprint User Story / Task Priority**

**Requirement (Epic) Number Points Members**

Sprint- Data Collection & As a developer, I can collect a diverse fabric image dataset from

USN-1 2 High Chaitanya

1 Preprocessing multiple sources

Sprint- Data Collection & As a developer, I can preprocess images (resize, normalize,

USN-2 2 High Deepika

1 Preprocessing augment)

Sprint- As a developer, I can label images into correct fabric pattern

Data Labelling USN-3 2 High Rohith

1. categories

Sprint- Model Design & As a developer, I can design and implement a CNN-based deep

USN-4 2 High Nikhilesh

1. Implementation learning model for pattern classification

Sprint- As a developer, I can train the model using labeled data to

Model Training USN-5 2 High Chaitanya

2 achieve high accuracy

Sprint- As a developer, I can evaluate the model using metrics

Model Evaluation USN-6 2 Medium Deepika

1. (accuracy, precision, recall, F1-score)

**Functional User Story Story Team Sprint User Story / Task Priority**

**Requirement (Epic) Number Points Members**

Sprint- Web Interface As a user, I can upload a fabric image and receive predicted

USN-7 2 High Nikhilesh

1. Integration pattern output

Sprint- Visualization & As a user, I can view a detailed report of prediction confidence

USN-8 2 Medium Rohith

3 Reporting and pattern distribution

Sprint- As a developer, I can fine-tune the model based on feedback

Model Fine-tuning USN-9 3 Medium Chaitanya

1. and improve performance

Sprint- As a developer, I can deploy the model on a cloud platform and

Deployment & Testing USN-10 2 High Deepika

1. perform system testing

Sprint- Documentation & User As a developer, I can create comprehensive documentation and

USN-11 2 Medium Rohith

4 Guide a user guide

**Project Tracker, Velocity & Burndown Chart:**

**Total Story Sprint Start Sprint End Date Story Points Completed (as on Planned End Sprint Release Date**

**Sprint Duration**

**Points Date (Planned) Date) (Actual)**

**Sprint-**

**6 2 Days 20 June 2025 21 June 2025 6 21 June 2025**

**1**

**Sprint-**

1. **1 Day 22 June 2025 22 June 2025 6 22 June 2025**

**2**

**Sprint-**

1. **2 Days 23 June 2025 24 June 2025 7 24 June 2025**

**3**

**Total Story Sprint Start Sprint End Date**

**Sprint Duration**

**Points Date (Planned)**

**Story Points Completed (as on Planned End Sprint Release Date**

**Date) (Actual)**

**Sprint-**

**4 1 Day 25 June 2025 25 June 2025**

**4**

**4 25 June 2025**