**Project Planning Phase**

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

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| --- | --- |
| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID35420 |
| Project Name | Revolutionizing Liver Care : Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques |
| Maximum Marks | 5 Marks |

# Product Backlog, Sprint Schedule, and Estimation:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | USN-1 | As a data analyst, I want to collect patient liver data from open medical sources | 2 | High | PONNA RAHUL REDDY |
| Sprint-1 | Data Preprocessing | USN-2 | As a data engineer, I want to clean and preprocess the liver dataset | 3 | High | R SAI KISHAN VARMA |
| Sprint-2 | Model Building | USN-3 | As a data scientist, I want to train an ML model to predict liver cirrhosis | 5 | High | PONNA RAHUL REDDY |
| Sprint-2 | Model Evaluation | USN-4 | As a developer, I want to evaluate the trained model using test metrics | 3 | Medium | SALAPADI PRAVALLIKA |
| Sprint-2 | Deployment | USN-5 | As a developer, I want to deploy the ML model using Flask | 5 | High | R SAI KISHAN VARMA |
| Sprint-2 | Frontend UI | USN-6 | As a user, I want to input data and see predictions via a web interface | 3 | Medium | GADDE SIVA TEJA |

# Project Tracker, Velocity & Burndown Chart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date** | **Story Points Completed** |
| Sprint-1 | 8 | 5 Days | 18 June 2025 | 22 June 2025 | 8 |
| Sprint-2 | 16 | 5 Days | 23June 2025 | 28 June 2025 | 16 |

**Team Velocity = (8 + 16) / 2 = 12 Story Points per Sprint**

**Burndown Chart:** A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

