**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 1 June 2025 |
| Team ID | LTVIP2025TMID38488 |
| Project Name | GrainPalette - A Deep Learning Odyssey In  Rice Type Classification Through Transfer Learning |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Use the below template to create product backlog and sprint schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-1 | Image data collection | USN-1 | As a user, I want to collect and label different rice grain images for training the model. | 3 | High | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek  4.V.Sai Koushik |
| Sprint-1 | Data preprocessing | USN-2 | As a developer, I want to preprocess the rice images (resize, normalization) to improve model accuracy. | 2 | High | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
|  |  |  |  |  |  | 4.V.Sai Koushik |
| Sprint-2 | Model traning | USN-3 | As a data scientist, I want to apply transfer learning on a pre-trained CNN model to classify rice types. | 5 | high | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek  4.V.Sai Koushik |
| Sprint-2 | Model evaluation | USN-4 | As a developer, I want to evaluate the model using accuracy, confusion matrix, and classification report. | 2 | medium | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek  4.V. Sai Koushik |
| Sprint-3 | Ui development | USN-5 | As a user, I want to upload a rice grain image through a simple web or mobile app and get classification results. | 3 | medium | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
|  |  |  |  |  |  | 4.V.Sai Koushik |
| Sprint -3 | Deployment | USN-6 | As a developer, I want to deploy the trained model and integrate it with the frontend for realtime use. | 4 | low | 1.Yatam.Sri Ankitha  2.Ponnapalli.Sri Krishna  3.Polisetti.  Vivek  4.V.Sai Koushik |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points**  **Completed (as on**  **Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6 Days | 24 June 2025 | 30 June 2025 | 20 | 20 June 2025 |
| Sprint-2 | 20 | 6 Days | 25 June 2025 | 1 July 2025 | 20 | 22 June 2025 |
| Sprint-3 | 20 | 5 Days | 26 June 2025 | 1 July 2025 | 20 | 24 June 2025 |

**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/) However, burn down charts can be applied to any project containing measurable progress over time.

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