**Project Planning Phase**

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

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| --- | --- |
| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID35759 |
| Project Name | Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management |
| 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 | Data Collection | USN-1 | As a data analyst, I want to collect poultry disease image data from trusted sources. | 2 | High | Mamidikayala Varsha |
| Sprint-1 | Data Loading | USN-2 | As a developer, I want to load data into my environment to begin preprocessing. | 1 | High | Pathikonda Yoshitha |
| Sprint-1 | Preprocessing | USN-3 | As an ML engineer, I want to clean and preprocess the data (missing/categorical). | 5 | High | Kona Yamini |
| Sprint-2 | Model Building | USN-4 | As an ML engineer, I want to build a CNN model using transfer learning. | 5 | Medium | Mamidikayala Varsha |
| Sprint-2 | Model Testing | USN-5 | As a QA, I want to test the accuracy and reliability of the model. | 3 | High | Pulluru Bala Vamsi Krishna |
| Sprint-2 | Deployment/  Interface Development | USN-6 | As a developer, I want to deploy the model using Flask and simple HTML interface. I want to build user input pages for image upload. | 5 | Medium | Pathikonda Yoshitha |

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

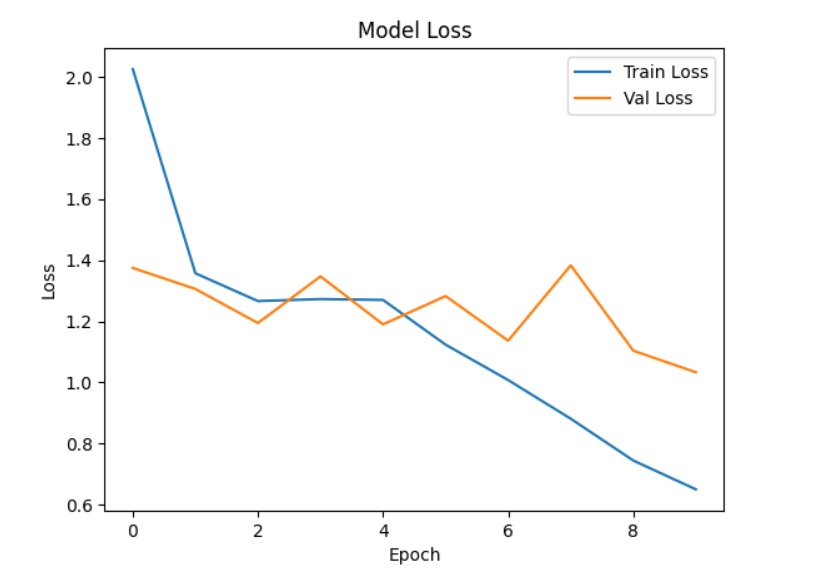
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 8 | 5 Days | 18 June 2025 | 22 June 2025 | 8 | Sprint-1 |
| Sprint-2 | 16 | 5 Days | 23June 2025 | 28 June 2025 | 16 | Sprint-2 |

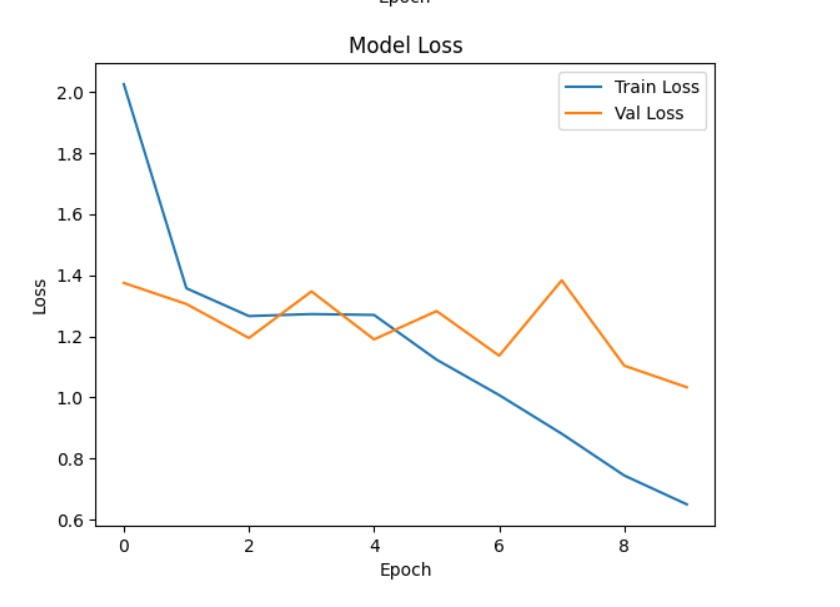
**Velocity:**

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)

**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.

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