

## Project Planning Phase

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

Date: -	27th October, 2023
Team ID: -	Team-593068
Project Name: -	Genetic Classification of Individuals using Machine Learning
Maximum Marks: -	4 marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	As a data scientist, I need to collect a diverse dataset of genetic variant images for analysis.	3	High	Nithillen, Uzayr, Atul, Pranav
Sprint-1	Data Preprocessing	USN-2	As a data analyst, I should preprocess the collected genetic data by normalizing pixel values and resizing images.	2	High	Nithillen, Uzayr, Atul, Pranav

Sprint-2	Model Selection	USN-3	As a machine learning engineer, I must evaluate various deep learning architectures and select the most suitable model for variant classification.	3	Medium	Nithillen, Uzayr, Atul, Pranav
Sprint-2	Model Training	USN-4	As a machine learning engineer, I need to train the selected deep learning model using the preprocessed genetic data and monitor its performance.	3	High	Nithillen, Uzayr, Atul, Pranav
Sprint-3	Testing and Validation	USN-5	As a quality assurance analyst, I should thoroughly test the model and fine-tune its hyperparameters based on user feedback and testing results.	2	High	Nithillen, Uzayr, Atul, Pranav
Sprint-3	Deployment	USN-6	As a software developer, I should deploy the trained deep learning model as an API and integrate it into a user-friendly web interface.	3	High	Nithillen, Uzayr, Atul, Pranav

#### 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	5	7 Days	29 Oct 2023	31 Oct 2023	5	

Sprint-2	6	7 Days	31 Oct 2023	3 Nov 2023	6	
Sprint-3	5	7 Days	3 Nov 2023	8 Nov 2023	5	