Initial Project Planning Template

Date	6 Feb 2026
Student Name	Sushant Dattatray Kadam
Project Name	greenclassify: deep learning-based approach for vegetable image

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint 1	Data Acquisition & Preprocessing	USN-1	Gather a diverse dataset of vegetable images from various sources (online datasets, personal photography).	5	High	Data Scientist, Engineer	2024-11-25	2024-11-29
Sprint 1	Data Acquisition & Preprocessing	USN-2	Clean and label the dataset, ensuring consistency and accuracy in labeling.	8	High	Data Scientist	2024-11-25	2024-11-29
Sprint 1	Data Acquisition & Preprocessing	USN-3	Resize and normalize images to a standard size and format for CNN input.	3	High	Engineer	2024-11-25	2024-11-29
Sprint 1	Model Development	USN-4	Select appropriate CNN architecture (e.g., ResNet, Inception) based on literature review and dataset characteristics.	5	High	Data Scientist	2024-11-25	2024-11-29

Sprint	Model Development	USN-5	Implement the chosen CNN model using TensorFlow/Keras.	7	High	Data Scientist, Engineer	2024-11-25	2024-11-29
Sprint 1	Model Development	USN-6	Train the initial model using the preprocessed dataset.	8	High	Data Scientist	2024-11-25	2024-11-29
Sprint 2	Model Evaluation & Optimization	USN-7	Evaluate model performance using appropriate metrics (accuracy, precision, recall, F1-score).	5	High	Data Scientist	2024-12-02	2024-12-06
Sprint 2	Model Evaluation & Optimization	USN-8	Tune hyperparameters (learning rate, batch size, number of epochs) to optimize model performance.	7	High	Data Scientist	2024-12-02	2024-12-06
Sprint 2	Model Evaluation & Optimization	USN-9	Perform cross-validation to assess model generalization ability.	4	High	Data Scientist	2024-12-02	2024-12-06
Sprint 2	Deployment & UI Development	USN-10	Develop a Flask web application for image upload and prediction.	8	High	Engineer	2024-12-02	2024-12-06
Sprint 2	Deployment & UI Development	USN-11	Integrate the trained model into the Flask application.	5	High	Engineer	2024-12-02	2024-12-06
Sprint 3	Testing and Documentation	USN-12	Conduct thorough testing of the application, including edge case scenarios.	3	High	QA Tester, Engineer	2024-12-09	2024-12-13
Sprint 3	Testing and Documentation	USN-13	Write comprehensive project documentation (report, code comments).	5	High	All Team Members	2024-12-09	2024-04-13