

Initial Project Planning Template

Date	15 March 2024
Skillwallet ID	SWUID20250186419
Project Name	Employee Performance Prediction
Maximum Marks	4 Marks

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

This section outlines the project's functional requirements, broken down into user stories, and provides a preliminary sprint schedule with story points and priorities.

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 Collection & Preprocessing	US-1	As a developer, I can load the raw dataset into a Pandas DataFrame.	1	High	1	28 July 2025	29 August 2025
Sprint-1		US-2	As a developer, I can identify and handle missing values, duplicates, and outliers in the dataset.	3	High	1	28 July 2025	29 August 2025
Sprint-1		US-3	As a developer, I can perform feature engineering, such as converting categorical data into numerical data.	3	High	1	28 July 2025	29 August 2025
Sprint-1		US-4	As a developer, I can split the data into training and testing sets.	2	High	1	28 July 2025	29 August 2025

Sprint-2	Model Development & Training	US-5	As a developer, I can train a baseline Linear Regression model.	2	High	1	31 July 2025	2 August 2025
Sprint-2		US-6	As a developer, I can train more complex models like Random Forest and XGBoost.	4	High	1	31 July 2025	2 August 2025
Sprint-2		US-7	As a developer, I can evaluate each model using regression metrics (MSE, MAE, R2 Score).	2	High	1	31 July 2025	2 August 2025
Sprint-2		US-8	As a developer, I can select the best performing model for the application.	1	Medium	1	31 July 2025	2 August 2025
Sprint-3	Model Optimization & Deployment	US-9	As a developer, I can perform hyperparameter tuning on the selected model to improve its performance.	4	Medium	1	03 August 2025	4 August 2025
Sprint-3		US-10	As a developer, I can save the final, optimized model to a .pkl file.	1	High	1	03 August 2025	4 August 2025
Sprint-3		US-11	As a developer, I can create a simple Flask web application to serve the model.	5	Medium	1	03 August 2025	4 August 2025

Sprint-3		US-12	As a developer, I can create a user interface to accept inputs and display predictions.	5	High	1	03 August 2025	4 August 2025
----------	--	-------	---	---	------	---	----------------	---------------