Initial Project Planning Template

Date	10 July 2024
Team ID	xxxxxx
Project Name	Forecasting Economic Prosperity: Leveraging Machine Learning for GDP per Capita Prediction
Maximum Marks	4 Marks

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

Use the below template to create a product backlog and sprint schedule

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 & Preparation	USN-1	As a user, I can load and inspect the GDP per capita dataset for initial understanding.	2	High	Kasturi Kumbhalkar	July 10, 2024	July 11, 2024
Sprint-1	Data Collection & Preparation	USN-2	As a user, I can visualize missing values in the dataset to identify gaps.	1	High	Kasturi Kumbhalkar	July 11, 2024	July 11, 2024
Sprint-1	Data Collection & Preparation	USN-3	As a user, I can preprocess the GDP per capita dataset so that the data is	2	Medium	Kasturi Kumbhalkar	July 12, 2024	July 13, 2024

			clean, normalized, and split for training and testing.					
Sprint-2	Data Cleaning	USN-4	As a user, I can replace missing values and drop unnecessary columns.	2	Low	Kasturi Kumbhalkar	July 13, 2024	July 14, 2024
Sprint-2	Data Cleaning	USN-5	As a user, I can convert data types and handle outliers in the dataset.	2	Medium	Kasturi Kumbhalkar	July 14, 2024	July 15, 2024
Sprint-3	Feature Engineering	USN-6	As a user, I can create new features from existing ones to improve model performance.	1	High	Kasturi Kumbhalkar	July 16, 2024	July 17, 2024
Sprint-3	Feature Engineering	USN-7	As a user, I can encode categorical variables into numerical values.	2	High	Kasturi Kumbhalkar	July 17, 2024	July 18, 2024
Sprint-4	Model Training	USN-8	As a user, I can split the dataset into training and testing datasets.	2	High	Kasturi Kumbhalkar	July 19, 2024	July 19, 2024
Sprint-4	Model Training	USN-9	As a user, I can train multiple regression models and evaluate their performance.	3	High	Kasturi Kumbhalkar	July 20, 2024	July 21, 2024
Sprint-4	Model Training	USN-10	As a user, I can save the trained model for future use.	1	High	Kasturi Kumbhalkar	July 21, 2024	July 21, 2024
Sprint-5	Model Evaluation	USN-11	As a user, I can compare the performance of different models using various metrics.	3	High	Kasturi Kumbhalkar	July 22, 2024	July 23, 2024

Sprint-5	Model Evaluation	USN-12	As a user, I can visualize model accuracies using plots.	2	High	Kasturi Kumbhalkar	July 23, 2024	July 24, 2024
Sprint-6	Model Deployment	USN-13	As a user, I can deploy the best-performing model using Flask.	3	High	Kasturi Kumbhalkar	July 25, 2024	July 26, 2024
Sprint-6	Model Deployment	USN-14	As a user, I can create HTML pages to interact with the Flask application.	2	Medium	Kasturi Kumbhalkar	July 27, 2024	July 28, 2024
Sprint-6	Model Deployment	USN-15	As a user, I can load the saved model and test it with new data inputs.	2	High	Kasturi Kumbhalkar	July 28, 2024	July 29, 2024
Sprint-6	Project Documentation	USN-16	As a user, I can document the entire project and create a presentation.	2	High	Kasturi Kumbhalkar	July 29, 2024	July 30, 2024