Initial Project Planning Template

Date	26 September 2024
Team ID	LTVIP2024TMID24876
Project Name	Rising Waters: A Machine Learning Approach to Flood 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 / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Data Collection and loading	Collecting the dataset from the source. Understanding & loading data	Medium	Sivarao,Brahmi	28/9/24	28/9/24
Sprint-1	Visualizing and analysis of data	Visualizing and Analysing the data in the dataset using correlation and bivariate, univariate and multivariate analysis	Medium	Priyanka	29/9/24	30/9/24
Sprint-1	Data processing	Processing and cleaning the data to use for the model.	Low	Chandu	30/9/24	30/9/24
Sprint-1	Splitting the data for training and testing.	Using train test split to train and test the data in the dataset to be used by the model.	Low	Sivarao	30/9/24	30/9/24
Sprint-2	Model Building	Performing Random Forest model on the dataset	High	Sivarao	1/10/24	2/10/24
Sprint-2	Model Building	Performing KNN model on the dataset	High	Chandu	1/10/24	2/10/24
Sprint-2	Model Building	Performing Logistic Regression model on the dataset	High	Brahmi	1/10/24	2/10/24

Sprint	Functional Requirement (Epic)	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-2	Model Building	Performing Decision Tress Classification model on the dataset	High	Priyanka	1/10/24	2/10/24
Sprint-3	Model testing	Performance of the all used models are tested using accuracy score,f1-score,r2 score etc.	Medium	Priyanka	3/10/24	3/10/24
Sprint-3	Hyper parameter tuning and testing	Performing hyper parameter tuning to find out the most suitable machines and testing	Medium	Brahmi, Sivarao	3/10/24	5/10/24
Sprint-3	Model Evaluation and Selection	Evaluating and Selecting an appropriate model for the performance.	Medium	Brahmi	5/10/24	5/10/24
Sprint-4	Web integration and deployment	Building HTML page	Medium	Chandu	4/10/24	5/10/24
Sprint-5	Model Deployment	Deploying the selected model using pickle for prediction.	low	Chandu	5/10/24	5/10/24