

### Initial Project Planning Report

Date	18-06-2025
Team ID	SWTID1749705847
Project Name	Rising Waters: A Machine Learning Approach to Flood Prediction
Maximum Marks	4 Marks

### Product Backlog, Sprint Schedule, and Estimation

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Data Collection and Preprocessing	SL-3	Understanding & loading data	Low	Angarag Seal	2025/06/12	2025/06/13
Sprint-1	Data Collection and Preprocessing	SL-4	Data cleaning	High	Angarag Seal	2025/06/14	2025/06/15
Sprint-1	Data Collection and Preprocessing	SL-5	EDA	Medium	Angarag Seal	2025/06/16	2025/06/17
Sprint-4	Project Report	SL-20	Report	Medium	Vineetha	2025/06/18	2025/06/18
Sprint-2	Model Development	SL-8	Training the model	Medium	Kundana	2025/06/19	2025/06/20
Sprint-2	Model Development	SL-9	Evaluating the model	Medium	Kundana	2025/06/20	2025/06/21
Sprint-2	Model tuning and testing	SL-13	Model tuning	High	Vineetha	2025/06/22	2024/03/23
Sprint-2	Model tuning and testing	SL-14	Model testing	Medium	Vineetha	2025/06/23	2025/06/23

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-3	Web integration and Deployment	SL-16	Building HTML templates	Low	Maitreyee Mukherjee	2025/06/20	2025/06/21
Sprint-3	Web integration and Deployment	SL-17	Local deployment	Medium	Maitreyee Mukherjee	2025/06/22	2025/06/22

### Screenshot:

The screenshot displays the Smart Internz web application interface. On the left is a sidebar with navigation links: Profile, Skill Bank, Skill Wallet (highlighted), Skill Card, Job Board, Subscription, and Transactions. The main area is titled 'KANBAN BOARD' and contains three tabs: 'PROJECT DETAILS', 'TASK & PROGRESS' (selected), and 'MENTOR REVIEW'. Under the 'TASK & PROGRESS' tab, there is a 'DATA COLLECTION' section with a Kanban board. The board has four columns: 'BACKLOG', 'IN-PROGRESS', 'REVIEW', and 'COMPLETE'. A task card is currently in the 'IN-PROGRESS' column. The card is titled 'TSK-284473' and 'Download The Data Set'. It shows a progress bar at 90% and a 'Comment' button. Above the task title are four circular avatars labeled VI, MM, AS, and RK. The top of the interface shows the 'Smart Internz' logo, a menu icon, and a 'Premium' status with 'AVAILABLE: 0' and notification icons.

## VISUALIZING AND ANALYZING THE DATA

BACKLOG	IN-PROGRESS	REVIEW	COMPLETE
		<div><div>TSK-284474</div><div>VJMMASKK</div><div>Importing The Libraries</div><div>Progress(%):90</div><div>Comment</div></div> <div><div>TSK-284475</div><div>VJMMASKK</div><div>Reading The Dataset</div><div>Progress(%):90</div><div>Comment</div></div>	

## VISUALIZING AND ANALYZING THE DATA

	<div><div>Uni-Variate Analysis</div><div>Progress(%):90</div><div>Comment</div></div> <div><div>TSK-284477</div><div>VJMMASKK</div><div>Multivariate Analysis</div><div>Progress(%):90</div><div>Comment</div></div> <div><div>TSK-284478</div><div>VJMMASKK</div><div>Descriptive Analysis</div><div>Progress(%):90</div></div>	
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## DATA PRE-PROCESSING

BACKLOG	IN-PROGRESS	REVIEW	COMPLETE
		<div><div>TSK-284479</div><div>VJMMASKK</div><div>Handling Missing Values</div><div>Progress(%):<div>90</div></div><div>Comment</div></div> <div><div>TSK-284480</div><div>VJMMASKK</div><div>Handling Outliers</div><div>Progress(%):<div>90</div></div><div>Comment</div></div>	

## DATA PRE-PROCESSING

		<div><div>TSK-284481</div><div>VJMMASKK</div><div>Handling Categorical Values</div><div>Progress(%):<div>90</div></div><div>Comment</div></div> <div><div>TSK-284482</div><div>VJMMASKK</div><div>Splitting The Dataset Into Dependent And Independent Variables.</div><div>Progress(%):<div>90</div></div><div>Comment</div></div>	
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## DATA PRE-PROCESSING

TSK-284483

VJ MM AS KK

Split The Dataset Into Train Set And Test Set

Progress(%):

90

 Comment


TSK-284484

VJ MM AS KK

Feature Scaling

Progress(%):

90

 Comment

## MODEL BUILDING

### Decision Tree Model

Progress(%): 90

 Comment

TSK-284486

VJ MM AS KK

### Random Forest Model

Progress(%): 90

 Comment

TSK-284487

VJ MM AS KK

### KNN Model

Progress(%): 90

## MODEL BUILDING

### Xgboost Model

Progress(%):

90

 Comment

TSK-284489

### Compare The Model

Progress(%):

90

 Comment

TSK-284490

### Evaluating Performance Of The Model

Progress(%):

90

MODEL BUILDING

Progress(%):

90

Comment

TSK-284491

VJMMASKK

Saving The Model

Progress(%):

90

Comment

BUILD FLASK APPLICATION

BACKLOG	IN-PROGRESS	REVIEW	COMPLETE
	<div><div>TSK-284493</div><div>VJMMASKK</div><div>Build Python Code</div><div>Progress(%):<div>50</div></div><div>Comment</div></div> <div><div>TSK-284494</div><div>VJMMASKK</div><div>Run The Application</div><div>Progress(%):<div>50</div></div><div>Comment</div></div>	<div><div>TSK-284492</div><div>VJMMASKK</div><div>Building HTML Pages</div><div>Progress(%):<div>90</div></div><div>Comment</div></div>	