

Ideation Phase

Define the Problem Statements

Date	28 January 2026
Team ID	LTVIP2026TMIDS56565
Project Name	Rising Waters: A Machine Learning Approach to Flood Prediction
Maximum Marks	2 Marks

Customer Problem Statement:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Disaster Management Authority	Predict potential flood situations early	Existing systems rely on manual monitoring and basic threshold rules	They do not analyze multiple environmental and hydrological factors together	Uncertain and concerned about delayed warnings and possible damage
PS-2	Resident living in a Flood-Prone Area	Stay safe and prepare before floods occur	Do not receive accurate and timely flood risk information	Prediction systems are either unavailable or not easily accessible	Anxious and vulnerable during heavy rainfall seasons

Problem Statement (PS)

PS-1	
I AM (Customer)	Disaster Management Authority
I'M TRYING TO	Predict potential flood situations early
BUT	Existing systems rely on manual monitoring and basic threshold rules
BECAUSE	They do not analyze multiple environmental and hydrological factors together
WHICH MAKES ME FEEL	Uncertain and concerned about delayed warnings and possible damage