Ideation Phase
Define the Problem Statements

Date	28 January 2026
Team ID	LTVIP2026TMIDS55682
Project Name	Exploratory-Analysis-Of-RainFall-Data-In-India-For-Agriculture
Maximum Marks	2 Marks

Customer Problem Statement Template:

Indian farmers who depend heavily on monsoon rainfall face serious challenges due to unpredictable and irregular weather patterns. Inaccurate or delayed rainfall forecasts often lead to poor planning of sowing, irrigation, and harvesting activities. As a result, farmers experience crop damage, financial losses, and reduced agricultural productivity.

There is a strong need for a reliable rainfall analysis and forecasting system that uses historical weather data to provide accurate predictions and help farmers make informed agricultural decisions.

I am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way — what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists — what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view — how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Reference: https://miro.com/templates/customer-problem-statement/

Example:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Farmer	Cultivate multiple crops	Due to heavy rain, I can't	I don't know rainfall forecasting	Extremely sad
PS-2	Farmer	Cultivate huge crops to meet raising demands	Due to no rainfall and water scarcit y, I can't	I am not aware of the possibiliti es of rainfalls in the month	Miserable

IMPORTANCE OF ANALYZING RAINFALL DATA:

Rainfall is one of the climatological data which is widely analyzed for a long time. Analysis of rainfall data is important as it facilitates policy decisions regarding the cropping pattern, sowing date, construction of roads and providing drinking water to urban and rural areas

RAINFALL IMPORTANT TO AGRICULTURE:

India gets around 70 percent of its annual rainfall during the monsoon season, which also affects the yield of some key kharif or summer crops like rice, pulses and oilseeds such as soybeans. Farmers start planting these crops with the arrival of monsoon rains in June.