

Ideation Phase
Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID08185
Project Name	Exploratory analysis of rainfall data in India for Agriculture
Maximum Marks	2 Marks

Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathise with your customers, which helps you better understand how they perceive your product or service.

I am	Describe customer key with 3-4 key characteristics: who are they?	A man has agricultural land,he wants to predict the rainfall to get accuracy of crop yield.
I'm trying to	List their outcome or "job" about what they are trying to achieve?	Agriculture in India is dependent on the monsoon season because farmers are not well equipped with modern methods of manual irrigation. They are still dependent on monsoon rains for irrigating their crops.
but	Describe what problems or barriers stand in the way-what bothers them more?	Not only is wet grain a problem, but farmers avoid field work during rain because tractors are heavy. With substantial rain absorption into the ground, tractors compact the soil causing problems for planting and growing.
because	Enter the "root cause"of why the problem or barrier exists-What needs to be solved?	The rain alarm will trigger the alarm when it rains so we can make some actions for rain water harvesting and also to save the rain water for using it later for agriculture in fields
Which makes me feel	Describe the emotions from the customer's point of view-how does it impact them emotionally?	The crop should be healthy which makes customers satisfied to buy the crops.

REFERENCE:

<https://doi.org/10.1080/02626667.2010.481373>

Example:

A farmer_ depend on rain for cultivation_ heavy rainfall cause crop damage_ using rain analysis methods

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Velan as a farmer	For improving the production	Due to heavy rainfall	With the help of linear regression model	Which protects the crop before rainfall in easy way
PS-2	Raju as a farmer	For implementation of landforms	Due to climate change	With the help of non regression model	Which helps the Farmers to precaution their crop yeild