

Ideation Phase

Define the Problem Statements

Date	27 June 2025
Team ID	LTVIP2025TMID59876
Project Name	Pattern Sense: Classifying Fabric Patterns using Deep Learning
Maximum Marks	2 Marks

Customer Problem Statement Template:

In the textile and fashion industries, identifying and categorizing fabric patterns (e.g., floral, striped, polka dot, geometric) is essential for inventory management, design cataloguing, quality control, and customer recommendation systems. Traditionally, this task relies on manual inspection, which is time-consuming, subjective, and prone to inconsistency.

With the growth of digital fashion platforms and large-scale textile production, there is a pressing need for an automated, scalable, and accurate method to classify fabric patterns from images.

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

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

Customer Problem Statement

I am	<p style="font-size: 0.8em; color: #666;">Who is the ideal customer? Define their profile and key characteristics.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30px; height: 30px; background-color: #add8e6; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #add8e6; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #add8e6; border: 1px solid #ccc; margin: 5px;"></div> </div>
I am trying to	<p style="font-size: 0.8em; color: #666;">What are their goals? Outline them here.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30px; height: 30px; background-color: #ffcc00; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #ffcc00; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #ffcc00; border: 1px solid #ccc; margin: 5px;"></div> </div>
But	<p style="font-size: 0.8em; color: #666;">What obstacles or challenges are preventing progress? List them here.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30px; height: 30px; background-color: #ff69b4; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #ff69b4; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #ff69b4; border: 1px solid #ccc; margin: 5px;"></div> </div>
Because	<p style="font-size: 0.8em; color: #666;">What are the root causes of these challenges? Identify them here.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30px; height: 30px; background-color: #4169e1; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #4169e1; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #4169e1; border: 1px solid #ccc; margin: 5px;"></div> </div>
Which makes me feel	<p style="font-size: 0.8em; color: #666;">How do these challenges impact their emotions? Describe their feelings here.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="width: 30px; height: 30px; background-color: #d2b48c; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #d2b48c; border: 1px solid #ccc; margin: 5px;"></div> <div style="width: 30px; height: 30px; background-color: #d2b48c; border: 1px solid #ccc; margin: 5px;"></div> </div>

Key Patterns Identified

- List the patterns here

Actionable Insights

- List the actionable insights here

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	food processing plant head	make my workers manually sort to separate the rotten ones from the fresh produce.	this process is time-consuming and prone to human error.	the whole process is in manual operations	like frustrated
PS-2	Supermarket manager	maintain customer satisfaction with product freshness	it is difficult to sort manually	the freshness of these products is crucial	like frustrated to sort