

Ideation Phase

Define the Problem Statements

Date	27 June 2025
Team ID	LTVIP2025TMID39904
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 - 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/>

Customer Problem Statement

I am

Who is the ideal customer? Define their profile and key characteristics.

I am trying to

What are their goals? Outline them here.

But

What obstacles or challenges are preventing progress? List them here.

Because

What are the root causes of these challenges? Identify them here.

Which makes me feel

How do these challenges impact their emotions? Describe their feelings here.

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	Fashion designer	Quickly and accurately classify different fabric patterns (e.g., striped, floral, checkered)	The manual process of identifying and categorizing fabric patterns is time-consuming and error-prone	The visual complexity and similarity among fabric patterns make consistent classification difficult	Frustrated and concerned about delays, mislabeling, and quality inconsistency
PS-2	E-commerce platform manager (for fashion/clothing)	Automatically tag and organize fabric products by their visual pattern for easier search and filtering	Relying on manual tagging by staff leads to inconsistencies and delays	Different people interpret fabric patterns differently, and handling large volumes is overwhelming	Worried about poor customer experience, search inefficiency, and loss in potential sales

