

Ideation Phase

Define the Problem Statements

Date	18 June 2025
Team ID	LTVIP2025TMID35513
Project Name	pattern sense: classifying fabric patterns using deep learning
Maximum Marks	2 Marks

Customer Problem Statement Template:

I am a **textile manufacturer, fashion designer, or fabric retailer** who works with a large variety of fabric patterns.

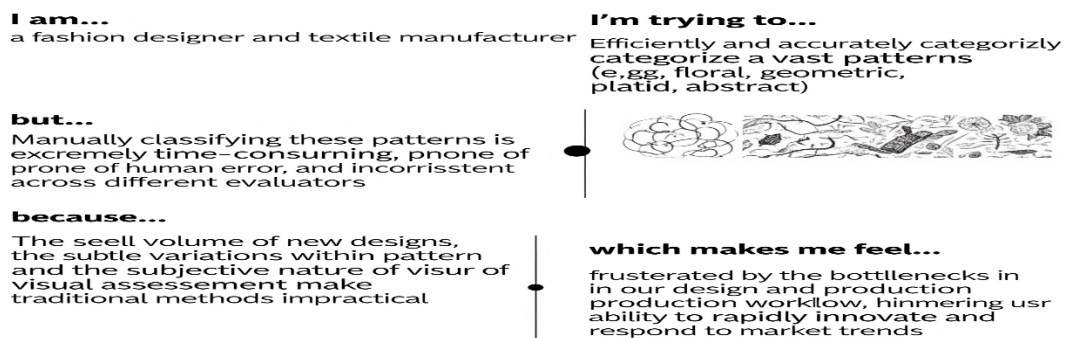
I'm trying to **efficiently and accurately classify fabric patterns into different design categories (such as floral, geometric, abstract, etc.)** in order to automate inventory management, support design selection, and improve customer recommendations.

But **the current manual process of inspecting and categorizing fabric patterns is slow, subjective, and requires skilled labor, leading to errors and inconsistencies.**

Because **there is no intelligent, automated system that can accurately recognize and classify fabric patterns from images at scale using advanced AI and deep learning methods.**

Which makes me feel **frustrated by inefficiency, limited in scaling operations, and unable to deliver personalized and modern experiences to customers.**

Classifying Fabric Patterns Using Deep Learning



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A textile manufacturer	Automate the classification of	Manual classification is	There is no AI-based system	Frustrated, limited in

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-2	A fashion retailer or designer	fabric patterns to improve inventory and production efficiency	slow and inconsistent	capable of accurately recognizing and classifying complex fabric patterns	scalability, and inefficient
		Recommend designs to customers based on their pattern preferences	Current methods lack precise, automated pattern categorization	There is no advanced deep learning solution to identify pattern types reliably	Unable to provide personalized experiences and competitive service