

# Problem - Solution Fit Canvas

Team ID: LTVIP2025TMID35738

Project Name: Pattern Sense: Classifying Fabric Patterns Using Deep Learning

## 1. CUSTOMER SEGMENT(S)

Textile manufacturers, fabric retailers, fashion designers.

## 2. JOBS-TO-BE-DONE / PROBLEMS

Need to classify and organize fabric patterns quickly and accurately.

## 3. TRIGGERS

Production deadlines, customer requests for specific pattern types.

## 4. EMOTIONS: BEFORE / AFTER

Before: frustrated, slow, error-prone. After: efficient, accurate, confident.

## 5. AVAILABLE SOLUTIONS

Manual inspection, traditional image search—slow and inconsistent.

## 6. CUSTOMER CONSTRAINTS

Limited technical expertise, need for cost-effective tools, time constraints.

## 7. BEHAVIOUR

Currently inspect fabric manually, sometimes refer to catalogs or image libraries.

## 8. CHANNELS of BEHAVIOUR

8.1 ONLINE: Use web search and databases.

8.2 OFFLINE: Manual fabric sorting and visual inspection.

## 9. PROBLEM ROOT CAUSE

Lack of intelligent tools for automated visual classification in the textile domain.

## 10. YOUR SOLUTION

A web-based deep learning system for fabric pattern recognition using CNNs and transfer learning.