Proposed Solution

Date: 25-06-2025

Team ID: LTVIP2025TMID35738

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

1. Problem Statement:

Manual classification of fabric patterns is slow, error-prone, and inefficient for large-scale industries..

2. Idea / Solution Description:

Use a CNN-based deep learning model with transfer learning to classify fabric patterns in real time..

3. Novelty / Uniqueness:

Real-time classification integrated into a user-friendly web interface; supports multiple pattern types and environm

4. Social Impact / Customer Satisfaction:

Improves operational efficiency in the textile industry and assists designers and factories with faster decisions..

5. Business Model:

Subscription-based SaaS model for enterprises; free trial for individual designers..

6. Scalability:

Designed as a modular cloud-based system with potential to expand to other pattern-related industries like wallpa