

Pattern Sense – Classifying Fabric Patterns using Deep Learning

1. Introduction

Project Title: Pattern Sense – Classifying Fabric Patterns using Deep Learning

Team Members:

2. Project Overview

Purpose:

Features:

3. Architecture

Frontend:

4. Setup Instructions

Prerequisites:

Installation:

Environment Variables:

5. Folder Structure

Client:

6. Running the Application

Frontend:

7. API Documentation

Method	Endpoint	Description
POST	/api/upload	Upload fabric image
GET	/api/classify	Returns pattern

classification

POST

/api/auth/login

User login

8. Authentication

JWT-based Authentication

9. User Interface

Features:

10. Testing

Frontend: Jest + React Testing Library

11. Screenshots or Demo

Insert screenshots or demo link here.

12. Known Issues

- Reduced accuracy with poor image quality

13. Future Enhancements

- Support for real-time camera-based classification