

SmartWardrobe

-Intelligent Outfit Recommender-

Idea:

- A mobile application that suggests outfits based on the current weather and the clothes in a user's wardrobe.

Concept:

- Allows users to upload photos of their clothes and automatically generates outfit suggestions based on the current weather and personal preferences
- This helps users save time, stay organized, and dress appropriately for any day or event

System Architecture:

⇒ The system consists of **three main layers**:

1. Frontend (React / Next.js): User interface for uploading images, viewing wardrobe, and receiving outfit suggestions
2. Backend (FastAPI / Spring Boot): Manages APIs, image processing, weather data, and outfit logic
3. Database (Firestore): Stores users, clothing items, and saved outfits

User Flow:

1. User logs in and uploads clothing images
2. The app classifies items (tops, bottoms, shoes)
3. Weather API fetches current conditions
4. The system suggests an outfit.
5. User can save, like, or modify the suggestion

Technology Stack

- Frontend: React, Next.js, TailwindCSS
- Backend: FastAPI (Python) / Spring Boot (Java)
- Database: Firestore (Realtime Database)
- External APIs: OpenWeatherMap (weather), Cloudinary (image storage)
- AI Tools: TensorFlow / Teachable Machine (image classification)

