# style match Ai

topic name :-Style Match AI: Revolutionizing Personalized Fashion Recommendations

Synopsis:- By analyzing user inputs, Style Match AI provides curated recommendations that align with their style preferences, making shopping experiences faster, more accurate, and tailored. The project integrates cutting-edge technologies such as natural language processing for seamless search queries, web scraping for real-time product data, and a responsive interface for enhanced user engagement. This AI-powered solution not only simplifies the shopping journey but also serves as a valuable tool for retailers aiming to understand customer demands better.

1. Introduction:-Problem: Fashion choices are often generic and lack personalization.

Solution: Style Match AI offers AI-powered, tailored fashion advice based on skin tone and user preferences.

2. Key Features :-

1. Image upload and analysis
2. Personalized color and style recommendations
3. Trend-aware clothing combination suggestions

3. How It Works:- Users upload images via Next.js frontend. FastAPI processes images, and Google Generative AI performs color and trend analysis.Results displayed in an intuitive, user-friendly interface.

4. Technology Stack

1. Backend: FastAPI for efficient API management
2. AI: Google Generative AI for color analysis and style recommendations
3. Frontend: Next.js for responsive UI
4. Image Processing: PIL for image analysis

5. Market Opportunity

1. Growing Market: Expanding fashion tech sector
2. Target Users: Individuals seeking personalized fashion advice and e-commerce platforms
3. Competitive Advantage: Hyper-personalized recommendations compared to generic solutions