Provisional Patent Application Draft

Title: AI-Powered Context-Aware Fashion Recommendation and Virtual Wardrobe System

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Date: May 27, 2025

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Summary:

This invention relates to an AI-powered fashion recommendation system that dynamically provides

personalized outfit suggestions based on user wardrobe data, live weather forecasts, event types, and multi-platform e-commerce integration. The system incorporates a virtual mannequin preview and social sharing functionalities to enhance user experience.

Background and Field:

Current fashion recommendation systems lack integration of multiple contextual factors such as real-time weather, location, and event-based customization. Existing virtual wardrobes do not seamlessly connect with e-commerce platforms to provide dynamic outfit completion suggestions. There is a need for a system that intelligently fuses these diverse inputs for improved personalized recommendations.

Detailed Description:

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1. User Data Input:

- Users upload images and details of their wardrobe items, including type, color, and style.
- User profile includes age, gender, and style preferences.

2. Contextual Data Integration:

- The system fetches real-time weather and location data to adjust outfit suggestions dynamically.
- Event types specified by users (e.g., formal, casual, outdoor) influence recommendations.

3. AI Recommendation Engine:

- Novel AI algorithms process user data, weather, location, and event inputs.

- The engine generates personalized outfit suggestions optimized for comfort, style, and appropriateness.

4. Multi-Platform E-Commerce Integration:

- Connects with APIs of Amazon, Myntra, and Flipkart.

- Suggests items to complete outfits with price comparison and wishlist features.

5. Virtual Mannequin Preview and Social Sharing:

- Users preview recommended outfits on a digital mannequin.

- Sharing options enable feedback and social interaction.

Claims:

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1. A method for providing personalized outfit recommendations by dynamically integrating user wardrobe data with real-time weather, location, and event context.
2. The use of AI algorithms that combine multi-source data inputs to generate optimized clothing suggestions.
3. Integration of multiple e-commerce platforms for automated outfit completion and price comparison.
4. A virtual mannequin interface for outfit preview combined with social sharing features.

Advantages:

- Enhanced personalization through multi-context awareness.

- Seamless user experience from recommendation to purchase.

- Social engagement for improved fashion decision-making.

Potential Applications:

- Consumer fashion retail

- Virtual wardrobe management

- Online shopping assistance

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