

Sports Apparel and Footwear Recommendation System

ABSTRACT

The Sports Apparel and Footwear Recommendation System is a user-friendly web application designed to enhance the shopping experience for sports enthusiasts. It features a responsive interface for browsing categories like clothing, footwear, bags and sports accessories, along with a secure sign-in page, shopping cart and checkout system. Each section displays images of products, prices, discount rates, product descriptions and customer rating options. An AI-powered recommendation system provides personalized product suggestions and outfit matching based on user preferences and behavior. The frontend will be developed using HTML, CSS and JavaScript, ensuring a responsive and visually appealing design that works across all devices. On the backend, Python with Flask can be used to handle user data, product management and cart functionality, ensuring a robust and scalable structure. For data storage, a database MySQL will be implemented to securely manage user information, product details and order history. To enhance user experience, an AI-powered recommendation engine will be developed using Python libraries like scikit-learn or TensorFlow, providing personalized product suggestions and outfit combinations based on user preferences, purchase history and browsing behavior. By combining these technologies, the project aims to deliver a feature-rich, intelligent and enjoyable shopping platform.

Submitted by,

Mirza Benny

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