**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.

**Users:**

* Customers
  + Sign in, browse products, add to cart, checkout and leave ratings.
  + Personalized recommendations.
* Admin

• Manage users, products, orders and view sales analytics.

**Features:**

* **User Registration:**
  + Sign-up/sign-in, profile management.
* **Product Browsing and Filtering:**
  + Categories, product images, descriptions, prices and ratings.
  + Filters for size, color, price and discounts.
* **Shopping Cart:**
  + Add/remove items.
* **Ratings & Reviews:**
  + Customer ratings and reviews for products.
* **AI-Powered Recommendations:**
  + Personalized suggestions and outfit matching based on user behavior.