

Smart Fashion Recommender Application

Abstract

Nowadays, fashion applications and e-commerce are growing more and more. And it also has some problems when finding the customer's wanted product in the web applications. Having a chatbot that understands the algorithm of a specific application can be of great aid. We are implementing such a chat bot in a web application, which is fed with the knowledge of the application's algorithm and helps the user completely from finding their needs to processing the payment and initiating delivery. It works as an advanced filter search that can bring the user what they want with the help of pictorial and named representation by getting simple user information and activities. The application also has two main UI interactions: one is the user panel and the other one is the admin panel. Users can interact with the chat bot to search for products, order them from the manufacturer or distributor through chatbot AI, and it can also make payment transactions, track the delivery, and so on. The admin interface enables the user to upload products' details ,user details, orders and find how many products have been bought; supervise the stock availability; and interact with the buyer regarding the product reviews.

Literature Survey

Problem Statement:

In E-commerce websites, users need to search for products and navigate across screens to view the product, add them to the cart, and order products. The smart fashion recommender application leverages the use of a chat bot to interact with the users, gather information about their preferences, and recommend suitable products to the users. This application has two predefined roles assigned to the users. The roles are customer and admin. Admin can be able to track the number of different products and create products with appropriate categories. The user should be able to mention their preferences using interacting with chat bots. The user must receive a notification on order confirmation/failure. The chat bot must gather feedback from the user at the end of order confirmation. The main objective of this application is to provide better interactivity with the user and to reduce navigating pages to find appropriate products.

Existing Solution:

Globalization and the emergence of new technologies have changed the way in which companies create value, modifying ways of competing on the market . The field of fashion is not unaffected by this transformation, and business models within this industry have witnessed far-reaching changes in terms of relationships with suppliers and consumers. In classifying fashion business models, understanding this concept as the rationale of how an organization creates, delivers, and captures value, the creation of value has been segmented into models that range from luxury fashion to low-cost fashion. The fashion sector can be represented as a pyramid, ranging from a high-end/high-margin/low-volume tip to a low-end/low-margin/high-volume base.

Conclusion:

The smart fashion recommender system uses a chat bot as a primary mechanism to interact with users, collect user interest and recommend products periodically. A chat bot is designed to improve user experience by interacting with users. Users need not navigate between multiple pages to find an appropriate product. The system is designed to minimize the efforts taken by customers to search for the required product. The future enhancements of the chat bot include adding products to the cart, displaying cart items, order history, and payment through the chat bot.

References:

- Samit Ch akraborty, Md. Saiful Hoque, Naimur Rahman Jeem-Fashion Recommendation Systems, Models and Methods.
- Samit Chakraborty, Md. Saiful Hoque, S.M. Surid- A Comprehensive review on image-based style prediction and online fashion recommendation.
- Qingqing Tu, Le Dong-An Intelligent Personalized Fashion Recommendation System.
- M Sridevi, N ManikyaArun, M Shashikala, and E Sudarshan-Personalized fashion recommender system with image-based neural networks.