LITERATURE SURVEY

Smart Fashion Recommendation Application

1.PaperTitle: Chatbot design approaches for fashion Ecommerce: An interdisciplinary review.

Publication: 02 Nov 2021.

Author name: ***A. R. D. B. Landim, A. M. Pereira, T. Vieira, E. de B. Costa, J. A. B. Moura, V. Wanick & Eirini Bazaki.***

Abstract: Chatbots can bring innovation in online assistance and communication with customers. Due to the growth of e-commerce, fashion brands have been adopting chatbots to provide personalised consumer experiences. Research in the area of chatbots for fashion e-commerce has addressed technological advancements and consumer behaviour, but little has been done on analysing chatbot features through a holistic point of view. The aim of this paper is to offer an interdisciplinary review through a comprehensive categorization of recent studies on the theme and inform future research in the area. To achieve that, a theme-based literature review was carried out through the analysis of specialized research. The collected work was categorized as addressing both computational and non-computational perspectives. The findings show that Deep Learning, recommendation systems, audio recognition, and integration of chatbots with other fashion applications are a few design opportunities to be applied in both research and practice***.***

2. PaperTitle: How should my chatbot interact? A survey on social characteristics in human-chatbot interaction design.

Publication: *October 26, 2020*

Author name: ***Ana Paula Chavesa and Marco Aurelio Gerosaa.***

Abstract: Chatbots' growing popularity has brought new challenges to HCI, having changed the patterns of human interactions with computers. The increasing need to approximate conversational interaction styles raises expectations for chatbots to present social behaviors that are habitual in human-human communication. In this survey, we argue that chatbots should be enriched with social characteristics that cohere with users' expectations, ultimately avoiding frustration and dissatisfaction. We bring together the literature on disembodied, text-based chatbots to derive a conceptual model of social

characteristics for chatbots. We analyzed 56 papers from various domains to understand how social characteristics can benefit human-chatbot interactions and identify the challenges and strategies for designing them. Additionally, we discussed how characteristics may influence one another. Our results provide relevant opportunities for both researchers and designers to advance human-chatbot interactions.

3. PaperTitle: Fashion Recommendation Systems, Models and Methods: A Review

Author name: ***Samit Chakraborty, Md. Saiful Hoque, Naimur Rahman Jeem, Manik Chandra Biswas, Deepayan Bardhan and Edger Lobaton***.

Abstract: In recent years, the textile and fashion industries have witnessed an enormous amount of growth in fast fashion. On e-commerce platforms, where numerous choices are available, an efficient recommendation system is required to sort, order, and efficiently convey relevant product content or information to users. Image-based fashion recommendation systems (FRSs) have attracted a huge amount of attention from fast fashion retailers as they provide a personalized shopping experience to consumers. With technological advancements, this branch of artificial intelligence exhibits a tremendous amount of potential in image processing, parsing, classification, and segmentation. Despite its huge potential, the number of academic articles on this topic is limited. The available studies do not provide a rigorous review of fashion recommendation systems and the corresponding filtering techniques. To the best of the authors' knowledge, this is the first scholarly article to review the state-of-the-art fashion recommendation systems and the corresponding filtering techniques. In addition, this review also explores various potential models that could be implemented to develop fashion recommendation systems in the future. This paper will help researchers, academics, and practitioners who are interested in machine learning, computer vision, and fashion retailing to understand the characteristics of different fashions.

4. Paper Title: A Review on Clothes Matching and Recommendation System Based on User Attributes

Author name: ***Atharv Pandit, Kunal Goel, Manav Jain, Neha Katre***

Methodology: It's crucial to dress adequately while venturing out into the real world. The confidence of the individual is raised and a very positive impression is made when they have dressed appropriately in clothing that exhibits some degree of style and is worn in a way that complies with societal norms. The goal of the study is to make it easier for

customers to locate the best-fitting outfits by taking into account fine elements like style, patterns, colors, and textures, as well as user characteristics like age, skin tone, and favorite colors. It seeks to assist the user in organizing their closet and making stylish clothing selections. It makes an effort to assist the user in dressing appropriately for the occasion and in finding clothing that complements their personal style. In order to create a robust system that discovers the user's matching outfits and provides recommendations, an in-depth analysis of numerous systems that are built for various aspects is undertaken in this research. Systems created to propose clothing using various methodologies have been researched, with both their benefits and drawbacks highlighted. It has also been investigated how to make clothing-detecting systems user-friendly while accepting feedback from the user.