

FASHION RECOMMENDER

Information Collection Phase

In this phase a user's relevant information is collected to develop a user profile or model based on the user's characteristics, behaviors, and the content of the resources they have browsed, which are applicable in prediction phase tasks. The accurate functioning of a recommendation agent depends on the proper construction of a user profile or model. The system can offer a quick yet appropriate recommendation when it has all the required information about the user. Thus, the success of a recommendation or recommender system largely depends on the ability of the model to denote users' current preferences or choices [57,62,63].

The foundation of the recommendation system relies on three types of input such as explicit feedback, implicit feedback, and hybrid feedback. Explicit feedback needs to be of high quality as it encompasses users' explicit input regarding their interest in or choice of a product. The accuracy of the prediction or recommendation relies on user ratings. Therefore, if the users do not provide enough information, it limits the accuracy of the system. Despite this requirement, explicit feedback is still considered a crucial information input process as it provides more reliable data and builds transparency into the recommendation procedure [57,64,65]. Implicit feedback is also important in understanding users' preferences, which are inferred indirectly through observation of user behavior. Although this method does not require the same effort from the users, it is often seen as less accurate [57,66]. Hybrid feedback is considered a combination of explicit and implicit feedback. It can be accomplished by utilizing the implicit feedback data as a check on the explicit feedback rating or by providing users with the opportunity to give feedback only if they choose to explicitly express their interest.

ABSTRACT

With an increase in the standard of living, peoples' attention gradually moved towards fashion that is concerned to be a popular aesthetic expression. Humans are inevitably drawn towards something that is visually more attractive. This tendency of humans has led to the development of the fashion industry over the course of time. However, given too many options of garments on the e-commerce websites, has presented new challenges to the customers in identifying their correct outfit. Thus, in this project, we proposed a personalized Fashion Recommender system that generates recommendations for the user based on an input given.

To overcome the navigations in the applications, we proposed a chatbot which makes a convenient shopping. The chatbot interacts with the user and provides the customized recommendations. This project mainly involves in the filtering of products for the user's convenient and acts as an perfect shopping companion.

As evidenced by the experiment, the proposed system outperforms in effectiveness on mass fashion information in the virtual space compared with human, and thus developing a personalized and diversified way for fashion recommendation.

LITERATURE SURVEY

S.no	Title	Abstract	Reference
1	Smart Recommender System using Deep Learning	Deep neural system has been succeeded in solving recent complex problems in AI, image processing, and natural language processing. In recommendation system innovation, deep learning is an enormous thing. Deep learning is applicable in various systems like music recommendation, speech recognition, book suggestion, and video on demand. Deep learning solves complex relations so many researchers use the deep neural network in their task. Most of the time task requires complex computation. Two models are proposed in the system.	https://ieeexplore.ieee.org/abstract/document/935858
2	Scenery-Based Fashion Recommendation with Cross-Domain Generative Adversarial Networks	To build an effective fashion recommendation system is a still challenging issue due to its high complexity. Previous research works generally have focused on how to provide fashion items visually similar to the user's current fashion taste. However, a scenery (natural landscape) around users is also an important affective factor in recommending fashions.	https://ieeexplore.ieee.org/abstract/document/8679117

3	Since first coined by Google in 2012, knowledge graph has received extensive attention from both industry and academia, and has been widely used in many scenarios with success, e.g. information retrieval, online recommendation, question-answering, and so on. However, traditional centralized construction of knowledge graph faces many challenges, such as laborious and time-consuming, vulnerable to manipulation or tampering, lacking scrutiny, among others. Therefore, in this paper, we propose a novel decentralized knowledge graph construction method by means of crowdsourcing..	https://ieeexplore.ieee.org/abstract/document/884472 <u>4</u>
4	Fashion has a great impact in everyday life and therefore, people pay close attention to the way they dress. Fashion item recommendation is typically a manual, curated process, where experts recommend items and trends to large populations. However, there is increasing use of automated, personalized recommendation systems, which have valuable applications in e-commerce websites. In this paper, we propose a collaborative fashion recommendation system, called CFRS.	https://ieeexplore.ieee.org/abstract/document/890068 <u>1</u>
	A Semantic Approach for Fashion Recommendation Using Logistic Regression and Ontologies	<p>Due to the increased prevalence of web recommendation systems after years of research, it has unarguably become the ultimate solution for efficient functioning of any e-commerce or user supportive digital domain. Though a variety of algorithms have been tested to meet the expectations of users in order to be decision supportive, this paper proposes a potential framework for recommendation of men's clothing. The focus of the system is to improve the efficiency of the recommendation to cope up to the speed of the user's thought process and expectations..</p> https://ieeexplore.ieee.org/abstract/document/963389 <u>1</u>

