SMART FASHION RECOMMENDER

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PROBLEM DEFINITION

- In case of offline shopping, sales assistants shower personal attention on customers and give complete details on the product. If you have any queries, you can ask right there. But, this does not happen in the case of online shopping. All you can do is see the picture and read the description. Some portals allow shoppers check the customer reviews.

- The customer cannot get the benefit of clearing doubts about the product which has to be purchased in online shopping. And also they don't get what they needed, its very tough for them to find the products based on their requirements.

OBJECTIVES

- To design a system through which you can directly do your online shopping based on your choice without any search. It can be done by using the chatbot.

LITERATURE SURVEY

- **NAME OF THE PAPER**:
Recommendation system development for fashion retail e-commerce

- **NAME OF THE AUTHOR:**
HyunwooHwangbo, YangsokKim, Kyung-jinCha

- **JOURNAL PUBLISHED:**
ICCSA 2022: 22nd International Conference

- **MONTH AND YEAR:**
19 April 2022

- **OBJECTIVE:**
To recommend the products to the customers by the following categories,
1)Fashion products are usually seasonal, so the customer preference changes from time to time.
2)Customers usually purchase items to replace previously purchased products.

LITERATURE SURVEY

- **NAME OF THE PAPER**:
An intelligent personalized fashion recommendation system

- **NAME OF THE AUTHOR:**
QingqingTu, Le Dong

- **JOURNAL PUBLISHED:**
ICCSA 2022: 22nd International Conference

- **MONTH AND YEAR:**
July 2010

- **OBJECTIVE:**
It helps the customer to find the current fashion trends and it also help the clients to find the most favourable fashion factor in trend and also a straight forward approach is used to analysis the main colortone of the skin and the clothes

LITERATURE SURVEY

- **NAME OF THE PAPER**:
An intelligent recommender system for personalized fashion design

- **NAME OF THE AUTHOR:**
X.Zeng, L.Koehl, L.Wang, Y.Chen

- **JOURNAL PUBLISHED:**
2013 Joint IFSA World Congress and NAFIPS Annual Meeting

- **MONTH AND YEAR:**
June 2013

- **OBJECTIVE:**
To evaluate a set of new design styles for a specific garment customer and a desired fashion themes.

LITERATURE SURVEY

- **NAME OF THE PAPER**:
Intelligent Fashion Recommender System:FuzzyLogic in PersonaliZedGarment Design

- **NAME OF THE AUTHOR:**
L.C.Wang, X.Y.Zeng, L.Koehl, Y.Chen

- **JOURNAL PUBLISHED:**
IEEE Transactions on Human-Machine Systems
- **MONTH AND YEAR:**
November 2014

- **OBJECTIVE:**
It recommends the client to select the most relevant garment design scheme for a specific consumer and it also integrates emotional fashion themes and human perception on personalized body shapes.

LITERATURE SURVEY

- **NAME OF THE PAPER**:
An Intelligent Personalized Fashion Recommendation System

- **NAME OF THE AUTHOR**:
Cristiana Stan, Irina Mocanu

- **JOURNAL PUBLISHED:**
2019 22nd International Conference on Control Systems and Computer Science

- **MONTH AND YEAR:**
May 2019

- **OBJECTIVE:**
This system will recommend the client that the outfit based on the cloth items considering users preferences.

LITERATURE SURVEY

☐ **NAME OF THE PAPER**:
 Learning Binary Code for Personalized Fashion Recommendation

☐ **NAME OF THE AUTHOR**:
 ZhiLu, YunchaoJiang, Yan Chen, Bing Zeng

☐ **JOURNAL PUBLISHED:**
 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition

☐ **MONTH AND YEAR:**
 June 2019

☐ **OBJECTIVE:**
 To overcome the problems which are faced in item search and storage

LITERATURE SURVEY

- **NAME OF THE PAPER**:
Smart Clothing Recommendation System with Deep Learning

- **NAME OF THE AUTHOR:**
BatuhanAŞIROĞLU, Mehmet İlkayATALAY, AlkanBALKAYA,ErdenTÜZÜNKAN, Mustafa Dağtekin,TolgaENSARİ

- **JOURNAL PUBLISHED:**
2019 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies

- **MONTH AND YEAR:**
October 2019

- **OBJECTIVE:**
This will recommend by using simple photo of user. Accuracy :98% accuracy on colorprediction, 86% accuracy on gender and 75% accuracy on cloth recommendation.

LITERATURE SURVEY

- **NAME OF THE PAPER**:
Personalized Attention Network For Outfit Recommendation

- **NAME OF THE AUTHOR**:
HuijingZhan, JieLin

- **JOURNAL PUBLISHED:**
2021 IEEE International Conference on Image Processing

- **MONTH AND YEAR:**
September 2021

- **OBJECTIVE:**
Most of the fashion recommendation focus on general compatibility while ignoring the users preferences. But this focus on personalized preferences through PAN(Personalized Attention Network)

LITERATURE SURVEY

- **NAME OF THE PAPER**:
 A Stacking Recommender System Based onContextual Information forFashion Retails

- **NAME OF THE AUTHOR**:
 Heitor Werneck, Nicollas Silva, Carlos Mito, Adriano Pereira, Elisa Tuler,Diego Dias, Leonardo Rocha

- **JOURNAL PUBLISHED:**
 ICCSA 2022: 22nd International Conference

- **MONTH AND YEAR:**
 July 2022

- **OBJECTIVE:**
 Their main idea is to incorporate user preference and item characteristics to ensure a desirable level of personalization to commonly applied methods.

CRITICAL FINDINGS

- These Smart Fashion Recommender makes much contribution provides a easiest way for the customers to purchase the items based upon their recommendation.

- Based on the users need, it will filter and recommend to the user.

- Although it offers certain benefits, there are some drawbacks as well, there will be a possibility of users getting wrong recommendations.

Technical Architecture: