

SMART FASHION RECOMMENDER APPLICATION

(PNT222TMID08162)

BATCH B9-3A5E

PRESENTED BY

1. RAAGAMALIGA B

2. HEMA S

3. MANISHA V P

4. MONISHA K

ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR.

Dept of ECE, ACE

B.E.,ECE

GUIDED BY : ANITHA V

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➤ Objective

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OBJECTIVE



Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a web based interface for online retailers. The system would be easy to use and hence make the shopping experience pleasant for the users.

LITERATURE REVIEW

1) A Review on Clothes Matching and Recommendation Systems based on user Attributes (Atharv Pandit , Kunal Goel , Manav Jain , Neha Katre, 03-09-2020)

➤The study focuses on helping the user to find optimized matching pair of clothes like style, patterns, colors, textures, etc. also keeping in mind users attributes like age, skin tone, favorite color etc. It tries to help the user to wear clothes that are suitable to occasions and helps user to buy clothes that would suit their style.

➤In this paper, an in depth study is performed of various systems that are developed for the various features that must be kept in mind for making a robust system that finds matching clothes of the user as well as makes recommendations.

➤Systems that are user- friendly while the user provides input.

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LITERATURE REVIEW Contd...

2) An Interactive Knowledge-Based Recommender System For Fashion Product Design In The Big Data Environment (Min DONG)

➤To develop this system, the anthropometric data and designer's perception of body shapes are first acquired by using a 3D body scanning system and a sensory evaluation procedure. Next, an instrumental experiment is realized for measuring the technical parameters of fabrics and five sensory experiments are carried out in order to acquire design knowledge. The acquired data are used to classify body shapes and model the relations between human bodies, fashion themes and design factors by using fuzzy techniques. This process can be performed repeatedly until the designer is satisfied. The proposed system has been validated through a number of successful real design cases.

➤In this paper, we propose a new designer-oriented recommender system to support personalized fashion design. It will be implemented by various fashion brands on their e-shopping platforms. In contrast to the existing systems in the same category, the proposed system is based on the professional knowledge of designers and can effectively deal with consumer and designer emotions and interactions between the virtual display of the recommended design scheme, designer perception and design knowledge. It cannot only recommend existing design schemes but also automatically generate new design solutions by making optimized combinations of basic design elements. The main component of this system is the design knowledge base, composed of five mathematical models characterising relations between consumer body shapes, fashion requirements and design factors. In this knowledge base, the classically separated design knowledge is structured and formally represented by an ontology model, allowing the generation of feasible design schemes.

LITERATURE REVIEW Contd...

3) Fashion out fit recommender system (By Nikita Ramesh, 2018)

- The online apparel retail market size in the United state is worth of about 72 billion dollars. So recommendation system on retail websites are used.
- By using this recommendation system visual based recommendation have gained more in last few year. In this recommendation system quantity of images deep neural networks are used. By using graphics processing units these networks provides extremely accurate result. Also it takes less amount of time. Deciding what clothes to be wear for an particular event also it is time consuming task. Not wearing appropriate clothes on certain occasions may lead offend on some people. These online recommendations may lead to find a particular dress for particular detection.
- These visual fashion recommendation has a important part called object detection.
- Recommending clothes using images has made progress over the years .As research in this field continues more and more interesting methods come to light.

LITERATURE REVIEW

4) Design and implementation of clothing fashion style recommendations system(Tariq hussain)

➤ During recent years online shopping has been growing faster. These recommendations uses both customer and business enterprises desire where the client to easily discover. The greater part of 62% US buyers with web access presently shop online. Algorithms and unique experiments the recommendation system is still the most appropriate answer for solving net issues. Recommendations system make recommendations base on the information provided. Recommendations system have described via many researches in extraordinary ways. Recommendations system no longer consist only calculating consumers.

➤ We accomplish this by implementing an already existing CNN model with transfer learning for cloth image recognition using different libraries.

LITERATURE REVIEW

5) Smart Shop Assistant – Using Semantic Technologies to Improve Online Shopping.(German: “iD2010 - Informationsgesellschaft Deutschland 2010”)

- In this paper, Customers choosing the “perfect” product for their needs. They will increasingly claim to have all relevant product information at their fingertips without going through long search procedures and comparing hundreds of differently product web sites.
- In the future internet, which is definitely connected with the further advancement of web 2.0 and semantic technologies.
- To solve issues this paper results a Aletheia-subproject in which we utilize semantic and Web 2.0 technologies to offer a “modern” online shop connected with a new shopping experience by gathering and aggregating available information.
- This technique has complex issues there was a need for a heterogeneous prominent project consortium that represents.

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