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Department of Computer Engineering

B.E. Final Year Projects

PROJECT TITLE

ACADEMIC YEAR: 2020-21

Date: 25-06-2020

Type: Category-1 (Internship)

Project Title: Pocket Fashionista - A Complexion based Outfit Color Advisor using Neural Networks

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Abstract:

People usually find it difficult to get the best clothing color combinations that suit their skin tone well and go well with the existing fashion trends. There are few applications which give us numerous options about the latest fashion and trends but again in-decisive people are unable to judge what outfit color suits them the best. So to solve clothing color combination issues our proposed system's aim is to develop a complexion based clothing color recommendation system that will help to choose the best possible clothes color combinations. It will also allow the users to virtually visualize how they will look in the recommended color combinations. The virtual trial rooms will be based on the 2D image of the user and the recommended clothes will be fit to the user's body in the image. The application will allow users to make best choices with their clothes color combinations and thus saving their time and energy in even trying out the clothes. Another important thing this system will handle is the clothes and color combination recommendations will also be based on events/occasions in the user's life which will make him look attractive in the social events. Weather based recommendations will also be provided to the user so that he can follow the latest trends according to the ongoing weather and get the best outfits that are comfortable to him. This system will facilitate merchants to master the real-time demand of consumers. The project emphasizes skin tone detection and classifies it into different Indian color tones and based on that it will recommend the best color clothes to that particular skin tone.

References:

- Q. Deng, R. Wang, Z. Gong, G. Zheng and Z. Su, "Research and Implementation of Personalized Clothing Recommendation Algorithm," 2018 7th International Conference on Digital Home (ICDH), Guilin, China, 2018, pp. 219-223, doi: 10.1109/ICDH.2018.00046.
- Y. Liu, Y. Gao, S. Feng and Z. Li, "Weather-to-garment: Weather-oriented clothing recommendation," 2017 IEEE International Conference on Multimedia and Expo (ICME), Hong Kong, 2017, pp. 181-186, doi: 10.1109/ICME.2017.8019476.
- CN104484450A Clothing matching recommendation method and clothing matching recommendation device based on pictures
- L. Yu-Chu, Y. Kawakita, E. Suzuki and H. Ichikawa, "Personalized Clothing Recommendation System Based on a Modified Bayesian Network," 2012 IEEE/IPSJ 12th International Symposium on Applications and the Internet, Izmir, 2012, pp. 414-417, doi: 10.1109/SAINT.2012.75.

Whether Interdisciplinary (Yes/No): No

If Yes, Name and sign of the Expert Guide from other Department: NA

Name & Signature: **Name of member 1: Siddesh Sonawane**

Name of member 2: Tejashri Wagh

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