

## **LITERATURE SURVEY**

Date	29 August 2022
Team ID	PNT2022TMID37061
Project Name	Project – Smart Fashion Recommender Application
Maximum Marks	4 Marks

### **INTRODUCTION:**

Clothing is a kind of symbol that represents people's internal perceptions through their outer appearance. It conveys information about their choices, faith, personality, profession, social status, and attitude towards life. So we have come up with a new innovative solution through which you can directly do your online shopping based on your choice without any search. It can be done by using the chat bot.

### **GITHUB ACCOUNT:**

We have created the github account with our email id in the <https://github.com> website. Github team ID is [IBM-EPBL/IBM-Project-40349-1660628507](https://github.com/IBM-EPBL/IBM-Project-40349-1660628507).

### **IBM CLOUD ACCOUNT:**

We have created the IBM Cloud Account using IBM Id's provided by IBM where my IBM cloud Account is 212619104011@smartinternz.com.

### **SOFTWARE REQUIRED:**

- Python
- Flask
- Docker

### **SYSTEM REQUIRED:**

- 8GB RAM, Intel Core i3
- OS-Windows/Linux/MAC
- Laptop or Desktop

In this project you will be working on two modules:

1. Admin and
2. User

## **ABSTRACT:**

The rapid progress of computer vision, machine learning, and artificial intelligence combined with the current growing urge for online shopping systems opened an excellent opportunity for the fashion industry. As a result, many studies worldwide are dedicated to modern fashion-related applications such as virtual try-on and fashion synthesis. This paper presents with a new innovative solution through which you can directly do your online shopping based on your choice without any search.

1. Barnard, M. *Fashion as Communication*, 2nd ed.; Routledge: London, UK, 2008.
2. Chakraborty, S.; Hoque, S.M.A.; Kabir, S.M.F. Predicting fashion trend using runway images: Application of logistic regression in trend forecasting. *Int. J. Fash. Des. Technol. Educ.* 2020, 13, 376–386, doi:10.1080/17543266.2020.1829096.
3. Karmaker Santu, S.K.; Sondhi, P.; Zhai, C. On application of learning to rank for e-commerce search. In *Proceedings of the 40th International ACM SIGIR Conference on Research and Development in Information Retrieval*, Shinjuku Tokyo Japan, 7–11 August 2017; pp. 475–484, doi:10.1145/3077136.3080838.
4. Garude, D.; Khopkar, A.; Dhake, M.; Laghane, S.; Maktum, T. Skin-tone and occasion oriented outfit recommendation system. *SSRN Electron. J.* 2019, doi:10.2139/ssrn.3368058.
5. Kang, W.-C.; Fang, C.; Wang, Z.; McAuley, J. Visually-aware fashion recommendation and design with generative image models. In *Proceedings of the 2017 IEEE International Conference on Data Mining (ICDM)*, New Orleans, LA, USA, 18–21 November 2017; pp. 207–216, doi:10.1109/ICDM.2017.30.
6. Sachdeva, H.; Pandey, S. Interactive Systems for Fashion Clothing Recommendation. In *Emerging Technology in Modelling and Graphics*; Mandal, J.K., Bhattacharya, D., Eds.; Springer: Singapore, 2020; Volume 937, pp. 287–294, doi: 10.1007/978-981-13-7403-6\_27.
7. Sun, G.-L.; Wu, X.; Peng, Q. Part-based clothing image annotation by visual neighbour retrieval. *Neurocomputing* 2016, 213, 115–124, doi:10.1016/j.neucom.2015.12.141.
8. Zhang, Y.; Caverlee, J. Instagrammers, Fashionistas, and Me: Recurrent Fashion Recommendation with Implicit Visual Influence. In *Proceedings of the 28th ACM International Conference on Information and Knowledge Management*, Beijing, China, 3–7 November 2019; pp. 1583–1592, doi:10.1145/3357384.3358042.
9. Matzen, K.; Bala, K.; Snavely, N. StreetStyle: Exploring world-wide clothing styles from millions of photos. *arXiv* 2017, arXiv:1706.01869.

- 10.**Guan, C.; Qin, S.; Ling, W.; Ding, G. Apparel recommendation system evolution: An empirical review. *Int. J. Cloth. Sci. Technol.* 2016, 28, 854–879, doi: 10.1108/ijcst-09-2015-0100.
- 11.**Hu, Y.; Manikonda, L.; Kambhampati, S. What we Instagram: A first analysis of Instagram photo content and user types. Avail-able online: <http://www.aaai.org> (accessed on 1 May 2014).
- 12.**Gao, G.; Liu, L.; Wang, L.; Zhang, Y. Fashion clothes matching scheme based on Siamese Network and AutoEncoder. *Multimed. Syst.* 2019, 25, 593–602, doi: 10.1007/s00530-019-00617-9.
- 13.**Liu, Y.; Gao, Y.; Feng, S.; Li, Z. Weather-to-garment: Weather-oriented clothing recommendation. In *Proceedings of the 2017 IEEE International Conference on Multimedia and Expo. (ICME)*, Hong Kong, China, 31 August 2017; pp. 181–186, doi:10.1109/ICME.2017.8019476.
- 14.**Chakraborty, S.; Hoque, M.S.; Surid, S.M. A comprehensive review on image based style prediction and online fashion recommendation. *J. Mod. Tech. Eng.* 2020, 5, 212–233.
- 15.**Chen, W.; Huang, P.; Xu, J.; Guo, X.; Guo, C.; Sun, F.; Li, C.; Pfadler, A.; Zhao, H.; Zhao, B. POG: Personalized outfit generation for fashion recommendation at Alibaba I Fashion. In *Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining*, Anchorage, AK, USA, 4–8 August 2019; Association for Computing Machinery: New York, NY, USA, 2019; pp. 2662–2670, doi:10.1145/3292500.3330652.