

ABSTRACT

With the quick rise in living standards, people's shopping passion grew, and their desire for clothing grew as well. A growing number of people are interested in fashion these days. . As a result of the suggested Fashion Recommendation System, a variety of online fashion businesses and web applications allow buyers to view collages of stylish items that look nice together. On the one hand, customers can make smarter shopping decisions and discover new articles of clothes that complement one other. Complex outfit recommendations, on the other hand, assist vendors in selling more products, which has an impact on their business. FashionNet is made up of two parts: a feature network for extracting features and a matching network for calculating compatibility. For FashionNet, you must create and compare three different architectures. To achieve individualised recommendations, a two-stage training technique was created.

LITERATURE REVIEW

[1] Hwangbo H., Kim Y.S., Cha K.J. Recommendation system development for fashion retail e-commerce.

Advantages: Recommendation systems are efficient machine learning solutions that can help increase customer satisfaction and user retention, and lead to a significant increase in your business revenues.

Disadvantages : Perhaps the biggest issue facing recommender systems is that they need a lot of data to effectively make recommendations.

[2] Sachdeva, H.; Pandey, S. Interactive Systems for Fashion Clothing Recommendation. In Emerging Technology in Modelling and Graphics.

Advantages: Proposed Content-Based Filtering Recommendation Algorithm.

Disadvantages: As it is CBF domain-dependent, rigorous domain knowledge is required to make precise recommendations

[3] Sonie, O.; Chelliah, M.; Sural, S. Concept to code: Deep learning for fashion recommendation. In Proceedings of the Companion Proceedings of The 2019 World Wide Web Conference on-WWW '19, San Francisco, CA, USA, 13-17 May 2019; pp. 1319-1320, doi:10.1145/3308560.3320100

Advantages: CBF does not need any information from other users, which makes this technique more feasible and less time consuming.

Disadvantages: The model only recommends products based on an existing database of previous users' interest, which restricts its expansion

[4] Gu, S.; Liu, X.; Cai, L.; Shen, J. Fashion coordinates recommendation based on user behavior and visual clothing style. In Proceedings of the 3rd International Conference on Communication and Information Processing ICCIP '17, Tokyo, Japan, 24-26 November 2017;

Advantges: Provides a valuable explanation, which motivates users to make decisions

Disadvantages: This method suffers limited content analysis issues, meaning users are restricted to the items already recommended.

REFERENCE

[1] <https://www.downloadmaghaleh.com/wp-content/uploads/edd/maghaleh/1398/13301.pdf>

[2] https://www.researchgate.net/publication/353485380_Fashion_Recommendation_Systems_Models_and_Methods_A_Review

[3] <https://dl.acm.org/doi/abs/10.1145/3308560.3320100>

[4] <https://dl.acm.org/doi/abs/10.1145/3162957.316298>

CONCLUSION

In this project, we have presented a novel framework for fashion recommendation that is driven by data, visually related and simple effective recommendation systems for generating fashion product images. The proposed approach uses a two-stage phase. Initially, our proposed approach extracts the features of the image using CNN classifier i.e., for instance allowing the customers to upload any random fashion image from any E-commerce website and later generating similar images to the uploaded image based on the features and texture of the input image. It is imperative that such research goes forward to facilitate greater recommendation accuracy and improve the overall experience of fashion exploration for direct and indirect consumers alike.