

ABSTRACT

From the oldest times there are fashion recommendations for dressing according to each period. Over time there have been various fashion periods that are devoted to certain types of clothing. To be able to create an outfit many more factors to be taken into account, such as what is fashionable, but also the style and personal preferences of each person. The notion of style is a subjective one, depending on the interests and personality of each one.

Online shopping search engines largely depend on knowledge base and use key word matching as their search strategy to find the most likely product that consumers want to buy. This is inefficient in a way that the description of products can vary a lot from the seller's side to the buyer's side. Due to the current situation caused by the Coronavirus, the majority of tasks are done online. Unlike the conventional systems that rely on user's previous purchases and history, this project aims at using an image of a product given as input by the user to generate recommendations since many-a-time people see something that they are interested in and tend to look for products that are similar to that. Thus, there is a need for an application that makes recommendations on the basis of the user's preferences. With an increase in the standard of living, people attention gradually moved towards fashion that is concerned to be a popular aesthetic expression. Humans are inevitably drawn towards something that is visually more attractive. This tendency of humans has led to development of fashion industry over the course of time. However, given too many options of garments on the e-commerce websites, has presented new challenges to the customers in identifying their correct outfit. We have proposed a Fashion Recommender system that generates recommendations for the user based on an input given. Unlike the conventional systems that rely on user's previous purchases and history, this project aims at using an image of a product given as input by the user to generate recommendations since many-a-time people see something that they are interested in and tend to look for products that are similar to that.

Developing a two-stage deep learning framework that recommends fashion images based on input images of similar style. For that purpose, a neural network classifier ResNet50 is used as a data-driven, visually-aware feature extractor. The latter then serves as input for similarity-based recommendations using a nearest neighbour algorithm knn.