

# Literature Survey

## Smart Fashion Recommender Application

Sandhiya.R - 310519104106  
Selvarani.G - 310519104116  
Subananthan.K - 310519104126  
Subash.M - 310519104127

S.No	Title	Abstract	Reference
1	Design and implementation of clothing fashion style recommendation system using deep learning	This abstract proposed a personalized Fashion Recommender system that generates recommendations for the user based on an input given. Unlike the conventional systems that rely on the 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. We use neural networks to process the images from DeepFashion dataset and a nearest neighbor backed recommender to generate the final recommendations.	<a href="https://iopscience.iop.org/article/10.1088/1757-899X/981/2/022073/meta">https://iopscience.iop.org/article/10.1088/1757-899X/981/2/022073/meta</a>
2	Building a Personalized Real-Time Fashion Collection Recommender	This abstract recommends building a personalized real-time Fashion Collection recommender. With modern tools like PyTorch, Fastai, and Annoy, we constructed a powerful product that can generate relevant recommendations based on the style of our users.	<a href="https://towardsdatascience.com/building-a-personalized-real-time-fashion-collection-recommender-22dc90c150cb">https://towardsdatascience.com/building-a-personalized-real-time-fashion-collection-recommender-22dc90c150cb</a>

3	Fashion Recommendation Systems, Models and Methods	Image-based fashion recommendation systems (FRSs) have attracted a huge amount of attention from fast fashion retailers as they provide a personalized shopping experience to consumers. With the technological advancements, this branch of artificial intelligence exhibits a tremendous amount of potential in image processing, parsing, classification, and segmentation	<a href="https://www.researchgate.net/publication/353485380_Fashion_Recommendation_Systems_Models_and_Methods_A_Review">https://www.researchgate.net/publication/353485380_Fashion_Recommendation_Systems_Models_and_Methods_A_Review</a>
4	Research Design of Fashion Elements Identification of Clothing Based on Decision Tree Algorithm and IoT	The field of data mining endeavors to anticipate clothing insurance factors completely plan on understanding the computational individual of learning. Qualities of dress learning are being explored as a methodology for settling on the decision and utilization of getting ready data and their outcomes.	<a href="https://www.researchgate.net/publication/363185514_Research_Design_of_Fashion_Elements_Identification_of_Clothing_Based_on_Decision_Tree_Algorithm_and_IoT">https://www.researchgate.net/publication/363185514_Research_Design_of_Fashion_Elements_Identification_of_Clothing_Based_on_Decision_Tree_Algorithm_and_IoT</a>
5	An Intelligent Personalized Fashion Recommendation System	a novel system-Intelligent Personalized Fashion Recommendation System, which creates a new space in web multimedia mining and recommendation. The proposed system significantly helps customers find their most suitable fashion choices in mass fashion information in the virtual space based on multimedia mining.	<a href="https://ieeexplore.ieee.org/document/5581949">https://ieeexplore.ieee.org/document/5581949</a>
6	Content-based Fashion Recommender System Using Unsupervised Learning	This phenomenon exacerbated the existing recommendation system, as the data has grown up drastically. In this study, the author recommends a relevant image quality based on the quality queries of the clothes and footwear dataset by observing their highest similarity score. Fashion MNIST images used were existing dataset for clothes and footwear.	<a href="https://ieeexplore.ieee.org/document/9707459">https://ieeexplore.ieee.org/document/9707459</a>

7	Recommendation system development for fashion retail e-commerce	fashion products are usually seasonal, so customers' general preference changes according to the time of year. Last, customers usually purchase items to replace previously preferred items or purchase items to complement those already bought. We propose a new system called K-RecSys. K-RecSys combines online product click data and offline product sale data weighted to reflect the online and offline preferences of customers	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1567422318300152">https://www.sciencedirect.com/science/article/abs/pii/S1567422318300152</a>
---	-----------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------

## Existing solution

1	<a href="https://www.nykaafashion.com">https://www.nykaafashion.com</a>
2	<a href="https://www.myntra.com">https://www.myntra.com</a>
3	<a href="https://www.limeroad.com">https://www.limeroad.com</a>
4	<a href="https://www.tatacliq.com">https://www.tatacliq.com</a>
5	<a href="https://www.faballey.com">https://www.faballey.com</a>
6	<a href="https://www.ajio.com">https://www.ajio.com</a>
7	<a href="https://www.westside.com">https://www.westside.com</a>