

FASHION MNIST(MODIFIED NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY)

ABSTRACT

The Fashion MNIST(Modified National Institute of Standards and Technology) dataset is a large database of fashion images that is used for training and testing various machine learning systems. The main reason for fashion item classification lies in the need to efficiently organize, search, and understand the vast and diverse world of fashion. Fashion items encompass a wide range of products, including clothing, accessories, footwear, and more; each with numerous variations in style, design, and characteristics. Classification allows for the systematic categorization of these items, enabling businesses and consumers to navigate and make sense of the vast fashion landscape. Overall, fashion item classification is driven by the need for efficient organization, effective inventory management, personalized recommendations, and enhanced consumer experiences. By categorizing and understanding fashion items, businesses and customers can navigate the ever-evolving fashion world with ease and make informed decisions.

The classification of fashion items covers a wide range .Classification plays a crucial role in improving a variety of aspects of the fashion ecosystem, including personal styling, e-commerce, and retail, as well as fashion trend analysis. Accurate classification makes it possible for customers to have a seamless shopping experience in e-commerce thanks to personalized recommendations and efficient product searches. It makes it easier for retailers to plan their assortments, optimize their supply chains and manage their inventory. Visual search and similarity matching are also made possible by classification, allowing users to find fashion items based on their preferences and visually similar products. Along with SVM(Support Vector Machine) classification, the primary goal of using CNN(Convolutional Neural Network) for fashion product classification is to achieve high accuracy in classifying fashion products and to ensure that the model is resistant to changes in background and lighting in the input images.it should accommodate many product categories and images, the model ought to be scalable.

DOMAIN- Deep Learning(DL)

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