



TECHNEX

Effortlessly Elevate Your Fashion Game with the AI-Powered
Clothing Recognition for Personalized Recommendations

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OVERVIEW

It takes a large investment in AI and machine learning technology, as well as skill in computer vision and software development, to create an AI-powered apparel identification system that can generate tailored suggestions based on user photographs.

OVERVIEW

An extensive library of garment photos and their related labels would be needed to train a deep learning model in order to create such a solution. This would entail gathering and classifying a sizable collection of clothing-related photos, followed by deep learning model training using free and open-source frameworks like TensorFlow or PyTorch.



OBJECTIVES AND GOALS

GOAL # 1

IMPORT THE MODEL

GOAL # 2

EXTRACT FEATURES OF THE IMAGES.

GOAL # 3

EXPORT FEATURES OF THE IMAGES

GOAL # 4

GENERATE RECOMMENDATION

TENSORFLOW

Machine learning is a complex discipline but implementing machine learning models is far less daunting than it used to be, thanks to machine learning frameworks—such as Google’s TensorFlow—that ease the process of acquiring data, training models, serving predictions, and refining future results.

TENSORFLOW

Created by the Google Brain team and initially released to the public in 2015, TensorFlow is an open source library for numerical computation and large-scale machine learning. TensorFlow bundles together a slew of machine learning and deep learning models and algorithms (aka neural networks) and makes them useful by way of common programmatic metaphors.

CONVOLUTIONAL NEURAL NETWORK (CNN)

It is a type of deep learning algorithm that is particularly well-suited for image recognition and processing tasks. It is made up of multiple layers, including convolutional layers, pooling layers, and fully connected layers.

The convolutional layers are the key component of a CNN, where filters are applied to the input image to extract features such as edges, textures, and shapes.

CONVOLUTIONAL NEURAL NETWORK (CNN)

The output of the convolutional layers is then passed through pooling layers, which are used to down-sample the feature maps, reducing the spatial dimensions while retaining the most important information. The output of the pooling layers is then passed through one or more fully connected layers, which are used to make a prediction or classify the image.



Thank You!!