**Developing an Efficient Clothing Classification Model using Convolutional Neural Networks (CNN)**

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**ABSTRACT**

In this project, our goal is to develop a highly efficient Convolutional Neural Network (CNN) model for accurately classifying images from the Fashion MNIST dataset into their respective clothing categories. we aim to develop a CNN model that can accurately classify clothing images from the Fashion MNIST dataset into their respective categories. This report covers the design, implementation and developing an efficient Clothing Classification Model using Convolutional Neural Networks (CNN).

This report will delve into the fundamental concepts of CNNs and their relevance to image classification tasks. Additionally, it will explore various CNN architectures and techniques that have been proposed and successfully applied to Fashion MNIST. The performance evaluation and comparison of different models will be presented, highlighting their strengths, limitations, and potential areas for improvement.

Ultimately, this report aims to provide a comprehensive understanding of the application of CNNs for Fashion MNIST, shedding light on the advancements in fashion recognition using deep learning techniques. The findings and insights presented herein will contribute to the growing body of knowledge in the field and serve as a valuable resource for researchers, practitioners, and enthusiasts interested in fashion classification and computer vision applications.