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**Revealing Clothing Features with ResNet50**

This week we considered how ResNet50 can be used to process clothing images. According to our knowledge, ResNet50 is a powerful convolutional neural network (CNN) architecture widely used in image recognition tasks.

ResNet50 is a CNN consisting of 50 layers. Each layer uses a set of convolutional filters. Convolutional filters analyze small pieces of images and create a feature vector for each piece.

,We investigated how ResNet50 extracts clothing features. ResNet50 uses different convolutional filters at different layers to capture different features of images. For example, early layers often capture general features such as color, shape, and texture. Later layers capture more specific features, such as sleeve length, collar type, or pattern.

Then, the features extracted by ResNet50 are visualized. This is a way to understand how extracted features contribute to the network's ability to recognize and categorize different types of clothing.

First, we will train ResNet50 on a clothing dataset. After the training, we will use ResNet50 to analyze clothing images and classify different types of clothing.