

Transfer Learning for custom data using Resnet50

GHNAMI Helmi
helmirealmadrid@gmail.com

Retrain ResNet50



The diagram illustrates the proposed architecture, which is a deep convolutional neural network. It starts with an input image, followed by a 7x7 convolutional layer (64, /2). This is followed by a series of residual blocks, each consisting of two 3x3 convolutional layers (64). The architecture is divided into three main sections: a red dashed box for the initial layers, a green dashed box for the middle residual blocks, and a red solid box for the final layers. The final output is a feature map of size 1000.

Diagram illustrating the final layer of the VGG architecture. The input is a feature map of size 2048×1 . This is reduced to a smaller feature map of size 512×1 , which is then passed through a Softmax layer for classification.

Remark

If the keras version is equal or higher than 2.0.0, please change "include_top" to "require_flatten" in the code of resnet50.py,

Import keras

Print(keras.__version__)

