Table of Contents

**No table of contents entries found.**

# Pre-Trained Models

## LeNet-5

* LeNet-5, since it has 5 layers with learnable parameters.
* 3 sets of Convolutional Neural Networks
* 2 Fully Connected Layers
* SoftMax Classifier
* Total Number of Parameters: 60K

A diagram of a diagram of a diagram

Description automatically generated with medium confidence

A table with a number of filters

Description automatically generated with medium confidence

## AlexNet

* It has 8 layers with learnable parameters.
* 5 Convolutional layers with the combination of max pooling and padding.
* 3 fully connected layers.
* Activation function: ReLU
* Also used Dropouts.
* Trained on ImageNet dataset.
* Total number of parameters: 62.3M

A table with a number of sizes

Description automatically generated with medium confidence

A grid of white squares

Description automatically generated

## VGG-16

* It has 16 layers with learnable parameters.
* Simple architecture and less number of hyperparameters.
* 13 convolutional layers and 3 fully connected layers.
* CNN - Kernel size (3X3), Stride (1), and Padding (1) for all convolutional layers.
* Max Pooling – Kernal size (2X2) and Stride (2) are fixed for all max pooling layers.
* Activation function: ReLU
* Trained on ImageNet dataset.
* Total trainable parameters: 138M

