



CIFAR-10 Training Result using Different CNN

Jiaming Nie

May 11, 2018

1 Training Summary

This report gives the results of different training result of CIFAR-10 dataset using different CNN (Convolutional Neural Network).

These networks are implemented by Keras.

1.1 CIFAR-10 Dataset

The CIFAR-10 dataset consists of 60000 32x32 colour images in 10 classes, with 6000 images per class. There are 50000 training images and 10000 test images.

1.2 Training Result

Table 1: Kalman Filter Parameters Notation

Network	Epochs	Batch Size	Dropout	Validation Result
AlexNet	150	64	-	76
VGG16	200	128	0.5	93
VGG19	200	128	0.5	93
ResNet	300	64	-	90
DenseNet	200	64	0.5	95

The training performance is on the following figure:

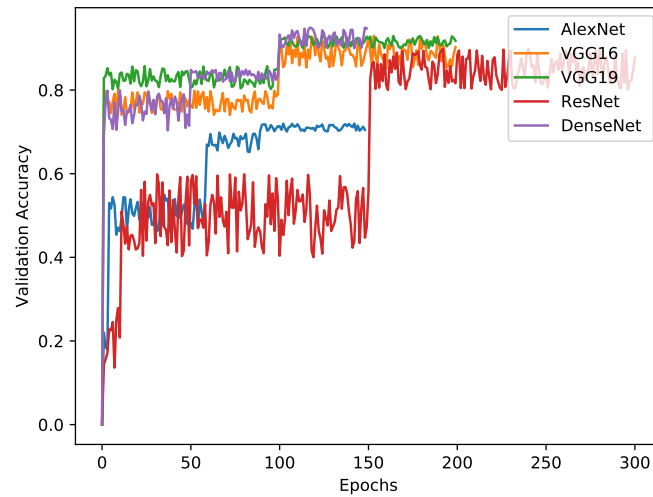


Figure 1: Training Result