RESNET

# library link

<https://github.com/pytorch/vision/blob/main/torchvision/models/resnet.py>

we can implement it.

# basic description

CNN was showing excellent performance in the field of image recognition, and it was improving performance by building more layers of the network and implementing a very deep network. However, in fact, networks that have become deeper to some extent have less performance due to vanishing/exploding gradient problems, which is called a depletion program.

The reason for the problem is that the distribution of weights is not uniform, and reverse propagation is not performed properly. ResNet was proposed to solve the problem of decreasing accuracy as the structure of this natural network deepens.

# version

* Pytorch >= 1.10.1+cu102 (pip install torch)
* torchvision >= 0.11.2 + cu102 (pip isntall torchvision)

# dataset

* CIFAR data set.

# code description

* Code to compare the actual label with the label predicted using ResNet..

# validation

* The test dataset is divided in CIFAR and verifed through learned ResNet.