

## Exercise 5

Implementation of image data augmentation:

1. Construct your own convolutional neural network, train the network with CIFAR10 dataset, then test the classification result of the implementation of horizontal and vertical flip augmentation technique on “dog.jpg” image.

CIFAR10 database link: <https://www.cs.toronto.edu/~kriz/cifar.html>

2. Construct your own convolutional neural network, train the network with MNIST dataset, then test the classification result of the implementation of rotation augmentation technique on “handwritten6.jpg” image.

MNIST database link: <http://yann.lecun.com/exdb/mnist/>

