**IE 534: Deep Learning HW2 Statement**

**Test Accuracy：96.42%**



**Implementation**

In this assignment, I constructed a **one-layer** convolutional neural network with **3 channels**. The activation function of the convolutional layer is **sigmoid** function. The output layer applies **softmax** function.

**Hyper-parameters setting**

|  |  |
| --- | --- |
| Learning Rate | 0.01 |
| Filter Size | 5 x 5 |
| Initialization Method | Xavier |
| Optimization Algorithm | SGD |
| Number of training epochs | 5 |