

DSE 3159 Week-3 Batch 3 – Weekly Exercises

Q) Train, Test and plot the performance curves the following architectures over the **MNIST dataset** as well as the **CIFAR-10 dataset**.

1. Design a CNN with:

- a) One Convolution layer which uses 32 kernels each of size 3x3, stride = 1 and, padding =0
- b) One Pooling layer which uses MAXPOOLING with stride =2.
- c) One hidden layer having number of neurons = 100

Note: uses ReLU activation function after each convolution layer.

2. Design the LeNet-5 architecture (see fig below)

