

21BDS0340

Abhinav Dinesh Srivatsa

Deep Learning Lab

### Assessment – I

**Aim:**

To train a model using the MNIST digits dataset and predict values from test data.

**Procedure:**

1. Load the MNIST digits dataset from keras
2. Create a utility function to plot a random digit
3. Create a utility function to plot a confusion matrix with a model and testing data
4. Create, compile, and fit the base model
5. Evaluate the model using a confusion matrix
6. Scale the input train and test data between 0 and 1
7. Create, compile, and fit the updated model
8. Evaluate the model using a confusion matrix

**Code:**

Interactive Python notebook attached below: