

DATA SOURCE

We used MNIST dataset in our project,

The MNIST dataset is an acronym that stands for the Modified National Institute of Standards and Technology dataset. MNIST dataset consists of training data and testing data. Each image is stored in 28X28 and the corresponding output is the digit in the image , training data consists of 60,000 images and testing data consists of 10,000 images . Each digit is normalised and centred in a grey-scale (0 - 255) image with size 28×28 . mnist dataset is a dataset of handwritten images as shown below in the image.



Each image consists of 784 pixels that represent the features of the digits. MNIST set is a large collection of handwritten digits. It is a very popular dataset in the field of image processing. We can get 80% accuracy in our project. Also we are using CNN (Convolutional Neural Network) with a functional model. The reason for using a functional model is to maintain easiness while connecting the layers.