

**Loading The Data** The dataset for this model is imported from the Keras module.

### load data

```
(X_train, y_train), (X_test, y_test) = mnist.load_data() #splitting the mnist data into train and test
```

We split the data into train and test. Using the training dataset we train the model and the testing dataset is used to predict the results.

```
print(X_train.shape) #shape is used for give the dimension values #60000-rows 28x28-pixels
print(X_test.shape)

(60000, 28, 28)
(10000, 28, 28)
```

We are finding out the shape of X\_train and x\_test for better understanding. It lists out the dimensions of the data present in it.

in trainset, we have 60000 images, and in the test set we have 10000 images