

Exp -6

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example of loading the mnist dataset

```
from tensorflow.keras.datasets import mnist
```

```
from matplotlib import pyplot as plt
```

load dataset

```
(trainX, trainy), (testX, testy) = mnist.load_data()
```

summarize loaded dataset

```
print('Train: X=%s, y=%s' % (trainX.shape, trainy.shape))
```

```
print('Test: X=%s, y=%s' % (testX.shape, testy.shape))
```

plot first few images

```
for i in range(9):
```

```
    # define subplot
```

```
    plt.subplot(330 + 1 + i)
```

```
    # plot raw pixel data
```

```
    plt.imshow(trainX[i], cmap=plt.get_cmap('gray'))
```

show the figure

```
plt.show()
```

```
show the figure
plt.show()

downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/mnist.npz
1490434/11490434 [=====] - 0s 0us/step
Train: X=(60000, 28, 28), y=(60000,)
Test: X=(10000, 28, 28), y=(10000,)
```

