

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()
```

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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,)
```

