

多层感知机的从零开始实现

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多层感知机的从零开始实现

```
import d2l
from mxnet import nd, gluon
```

定义模型参数

```
num_inputs, num_outputs, num_hiddens = 784, 10, 256
W1 = nd.random.normal(scale=0.01, shape=(num_inputs, num_hiddens))
b1 = nd.zeros(num_hiddens)
W2 = nd.random.normal(scale=0.01, shape=(num_hiddens,
b2m=ondpres)(num_outputs)
params = [W1, b1, W2, b2]
for param in params:
    param.attach_grad()
```

定义激活函数

```
def relu(X):
    return nd.maximum(X, 0)
```

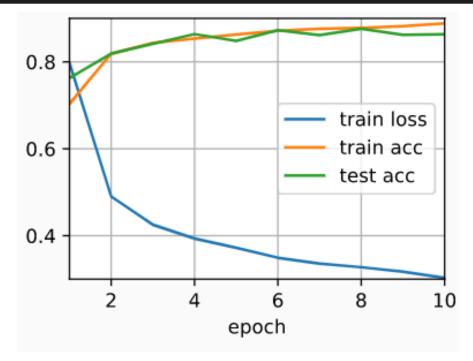
定义模型

```
def net(X):
    X = X.reshape((-1, num_inputs))
    H = relu(nd.dot(X, W1) + b1)
    return nd.dot(H, W2) + b2
```

定义损失函数

```
loss = gluon.loss.SoftmaxCrossEntropyLoss()
```

训练模型



谢谢!

Does anyone have any questions?

Twitter: @walkercet

Blog: https://ceteongvanness.wordpress.com

资源

Dive into Deep Learning