实验七报告

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作业 1:



作业 2:

```
| Timestrace | Tim
```

作业 3:

```
Inchrese283022

front[0]-23-73-38 mist]# git init
initialized early (of trepository in /mnt/mist/.git/
front[0]-23-73-38 mist]# git pull gitegitea.shuishan.et.cn:10215501435/mist.g

it
warning: Pulling without specifying how to reconcile divergent branches is
discouraged. You can squate this message by running one of the following
commands sometime before your next pull:
git config pull.rebase false # merge (the default strategy)
git config pull.rebase these # merge (the default strategy)
git config pull.rebase these # merge (the default strategy)
git config null.rebase state # merge (the default strategy)
git config on all repositories. You can also pass - rebase, - nor rebase.
or - rff-only on the command line to override the configured default per
Invocation.

remote: Counting objects: 3, done.
remote: Initial delite 0), reuses 0 (doits 0)
unccation.
remote. Initial delite 0), reuses 0 (doits 0)
FETCH MEAD
From gites shuishan.met.cn:1022550435/mails
for page gites shuishan
```

作业 4:

```
hon环境,查看已有包
05fe5bd:/# 4) 测线的ython环境,查看已有包
Highypthon环境,查看已有包: command not found
05fe5bd:/# docker run -it uhub.service.ucloud.cn/cloud_computing/python /bin/bash
er: command not found
er: foshed:/# python -V
    16e05Te350.
3.7.9
aee05fe5bd:/# pip list
Version
         20.3.1
51.0.0
0.36.1
abcf66d:/#
```

作业 5:

修改前

```
/local/lib/python3.7/site-packages/tensorboard/compat/ten
numpy, it will be understood as (type, (1,)) / '(1,)type
resource = np.dtype([("resource", np.ubyte, 1)])
8, 28, 28
8, 28, 28)
3, 1
8, 28 28)
8.7
4 1 9 2 1 3 1]
WhitemortCow-From /usr/local/lib/python3.7/site-packages/tensorflow/python/ops/init_ops.py:1251: calling VarianceScaling.__init____.

**Received and will be removed in a future version.**

**uctions for updating:**

**initializer instance with the dtype argument instead of passing it to the constructor

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**initializer instance with the drype argument instance in the construction of the construction of
                                                                                                                                                                                                                                                ==] - 2s 40us/sample - loss: 0.3885 - acc: 0.8876
           //CCAI/UN/pytends_7/31te_packages/tenseritow/python/framework/dtypes.py:516: FutureWarming: Passing (type. 1) or 'Itype' as a synonym of type is deprecated; it will be understood as (type, 1.1) / '(1,1ype'. o gint8 = np.dtype(['qint8', np.int8, 1]) / '(1,1ype'. o gint8 = np.dtype(['qint8', np.int8, 1])) / '(1,1ype'. o gint8 = np.dtype(['qint8', np.int8, 1])) / '(1,1ype'. o gint8 = np.dtype(['qint8', np.int8, 1])) / (1,1ype'. o gint8 = np.dtype(['qint8', np.int8, 1])) / (1,1ype'. o gint8', np.int8', np
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , 1) or 'ltype' as a synonym of type is deprecated; in a future version of r
                                                                                                                                                                                                                                                                                                                                                                                                                                                es.py:519: FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a futu
```

修改后

```
#设置训练超参,优化器为adam<mark>,损失函数为交叉熵,训练衡量指标为accuracy</mark>
model.compile(optimizer='adam', loss='sparse_categorical_crossentropy', metrics=['accuracy'])
model.fit(x_train, y_train, epochs=15)
model.evaluate(x_test, y_test)
for i in range(9):
   plt.subplot(3,3,1+i)
   plt.imshow(x_test[i], cmap='gray')
plt.show()
plt.savefig('./mnist/output/2.jpg')
model.save("./mnist/output/model_epoch_15")
```

110675.226.25022 - +
Instructions for updating:
Call initializer instance with the dtype argument instead of passing it to the constructor
2023-11-04 10:22:38.392304: I tensorflow/core/platform/cpu feature guard.cc:142] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2 AVX512F FMA
2023-11-04 10:22:38.396841: I tensorflow/core/platform/profile utils/cpu utils.cc:94] CPU Frequency: 2494140000 Hz
2023-11-04 10:22:38.397246: I tensorflow/compiler/xla/service/service.cc:168] XLA service 0x561b0239bb40 executing computations on platform Host. Devices:
2023-11-04 10:22:38.397267: I tensorflow/compiler/xla/service/service.cc:175] StreamExecutor device (0): <undefined>, <undefined></undefined></undefined>
2023-11-04 10:22:38.423054: W tensorflow/compiler/jit/mark for compilation pass.cc:1412] (One-time warning): Not using XLA:CPU for cluster because envyar TF XLA FLAGS=tf xla cpu global
jit was not set. If you want XLA:CPU, either set that envvar, or use experimental jit scope to enable XLA:CPU. To confirm that XLA is active, passvmodule=xla compilation cache=1 (as
a proper command-line flag, not via TF XLA FLAGS) or set the envvar XLA FLAGS=xla hlo profile.
Epoch 1/15
6000/60000 [=================================
Epoch 2/15
60000/60000 [=================================
Epoch 3/15
6000/60000 [=================================
Epoch 4/15
6000/60000 [=================] - 3s 43us/sample - loss: 0.0874 - acc: 0.9728
Epoch 5/15
6000/60000 [=================================
Epoch 6/15
60000/60000 [=================================
Epoch 7/15
60000/60000 [================] · 3s 43us/sample · loss: 0.0590 · acc: 0.9812
Epoch 8/15
60000/60000 [=================================
Epoch 9/15
60000/60000 [==============] - 3s 45us/sample - loss: 0.0494 - acc: 0.9832
Epoch 10/15
60000/60000 [==============] - 3s 43us/sample - loss: 0.0441 - acc: 0.9857
Epoch 11/15
60000/60000 [===================] - 3s 43us/sample - loss: 0.0400 - acc: 0.9863
Epoch 12/15
60000/60000 [==========================] - 3s 43us/sample - loss: 0.0389 - acc: 0.9869
Epoch 13/15
60000/60000 [==============] - 3s 42us/sample - loss: 0.0374 - acc: 0.9870
Epoch 14/15
6000/60000 [=================================
Epoch 15/15
6000/60000 [=============] - 3s 42u/sample - loss: 0.0318 - acc: 0.9893
10000/10000 [===========] - 0s 22us/sample - loss: 0.0739 - acc: 0.9809