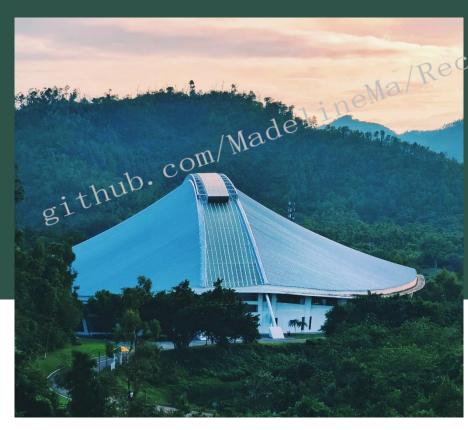




CONTENT

tf.keras使用

github.com/MadelineMa/Recommender-System



Ma/Recommender-System

01tf.keras安装

github.com/MadelineMa/Recommender-System

Python配置清华镜像源,加快下载速度:

- 1. 临时使用pip install -i https://pypi.tuna.tsinghua.edu.cn/simple some-package
- 2. 配置pip install pip -Upip config set global.index-url https://pypi.tuna.tsinghua.edu.cn/simple

新建Python虚拟环境: conda create -n tf2 python=3.7 n means name

激活环境并进入: conda activate tf2

Made pip install tensorflow

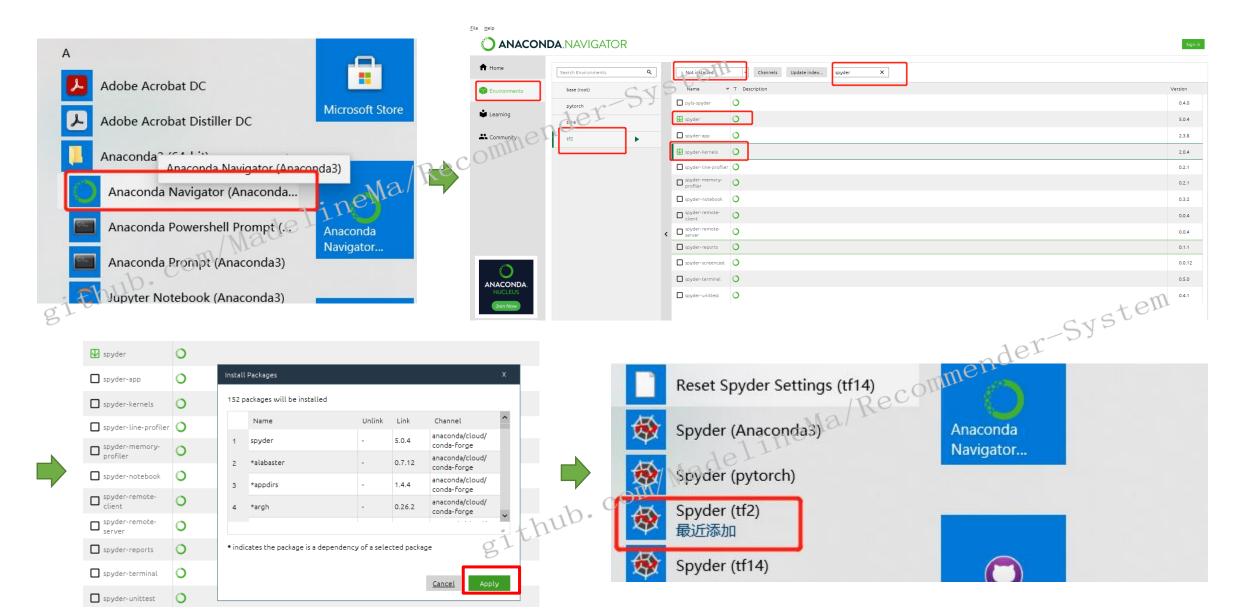
C:\Users\lenovo> conda activate tf2

```
Collecting flatbuffers = 1. 1. 0. Downloading flatbuffers-1. 12-py2. py3-none-any. The lecting astunparse = 1. 6. 3
Downloading termcolor-1.1.0.tar.gz (3.9 kB) Collecting flatbuffers~=1.12.0
```

```
github.com/MadelineMa/Recommender-System
>>> temporflow. __version_
  import tensorflow as tf
  tf.__version__
 2. 5. 0'
```



新环境的spyder界面



新环境的常用包安装

install pandas

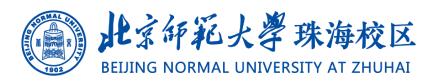
pip install scikit-learn Recommender-System

pip install fsspecline Recommender System

pip install scikit-learn Recommender System

pip install s

github.com/MadelineMa/Recommender-System



02
tf.keras使用

github. com/MadelineMa/Ric e can read of things t 000 years ago in the l cople first learned to

对结构化数据进行分类 | TensorFlow Core (google cn)

重点掌握

- 1. 不同类型的数据处理方式:
- 2. 理解流水线的数据处理思想;
- 3. keras.Sequential 的使用方法;
- 4. 完成demo的编译;

几个小bug的解决

- 代码: git/exercises/tf_keras_squential.py
- 5. 写一个基于keras的蘑菇分类程序.



- Index of /ml/machine-learning-databases/heart-diseasemmender—System

 Parent Directory
 Index
 WARNING
 ask detrano
 bak
 clevemod
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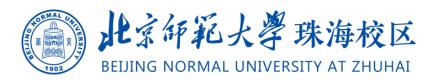
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We can read of things that happened 5,000 years ago in the Near East, where people first learned to write.



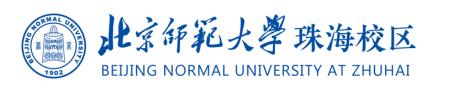
Demo:预创建的 Estimators TensorFlow Core (google.cn) Ma/Recomme

重点掌握:

- Tf.estimator 流程,tf模型的高级表示,学会入门例子,可后续进行自己设计的模型灵活搭建;
- Estimator自带DNN的使用;

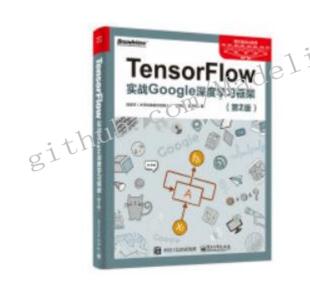
代码: git/exercise/tf_estimator_dnn.py

*自己设计的estimator demo: tf_lr_mashroom.py 利用estimator完成lr模型的搭建,但是适用于 tesorflow1.4版本,感兴趣同学可尝试写一版本tensorflow2的lr模型搭建.



本周作业

参考书籍



31ineMa/Recommender-System

写一个基于keras的蘑菇分类程序.

Tensorflow2利用estimator进行lr模型搭建.

