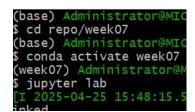
第7周学习笔记

1. 新建一个 environment.yml 文件, 指定安装 Python 3.12 和 jupyterlab, 然后运行 conda env create 命令创建 Conda 环境

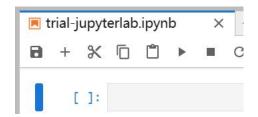


(base) Administrator@MI \$ conda env create

2. 运行 jupyter lab 命令



3. 在 JupyterLab 页面里,新建一个 Notebook,改名为 trial-jupyterlab.ipynb



```
[]:
[2]:
     x = "a" * x
     print(x)
     aaaaa
[5]: x = 5
     x = "a" * x
     print(x)
     x = 6
     x * 3
      aaaaa
[5]: 18
[3]: x = 9
[4]: print(x)
     9
[]: [4,2,9]
```

- 4. 运用大模型生成代码运行
- 5. 修改 environment.yml 文件,添加 pip: tushare (注意,conda-forge 没有收录 tushare,只能从 PyPI 安装,参考) 依赖项,运行 conda env update 更新 Conda 环境

```
! environment.yml

1    name: week07

2    channels:

3    - conda-forge

4    dependencies:

5    - python=3.12

6    - wat-inspector

7    - jupyterlab

8    - pip

9    - pip:

10    - tushare
```

运行 ipython 命令启动 IPython 交互界面

```
(week07) Administrator@MICROSO-

$ ipython

Python 3.12.10 | packaged by control
1943 64 bit (AMD64)]

Type 'copyright', 'credits' or

IPython 9.1.0 -- An enhanced In

Tip: You can use `%hist` to viol
In [1]: import tushare as ts

In [2]: quit
```

(week07) Administrator@MICROSO-J56D

\$ python

运行下面的 Python 代码设置 Tushare Token

```
Python 3.12.10 | packaged by conda-
1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credit.
>>> import tushare as ts
>>> ts.set_token("my fake token")
                                            "credits
 >>> quit()
$ ipython
Python 3.12.10 | packaged by conda-forge | (n
1943 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for
IPython 9.1.0 -- An enhanced Interactive Pyth
Tip: You can use `%hist` to view history, see
In [1]: import tushare as ts
In [2]: quit
(week07) Administrator@MICROSO-J56DDR4 MINGW6
$ python
  ython 3.12.10 | packaged by conda-forge | (r
1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "licer
>>> quit()
(week07) Administrator@MICROSO-J56DDR4 MINGW6 $ python
 ython 3.12.10 | packaged by conda-forge | (r
1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "licer
>>> import tushare as ts
>>> ts.set_token("my fake token")
>>> quit()
```

向 Tushare 服务器请求 IPO 新股列表 数据,并保存在本地

```
In [1]: import tushare as ts
In [2]: pro = ts.pro_api()
In [3]: type(pro)
Out[3]: tushare.pro.client.DataApi
In [4]: id(pro)
Out[4]: 2431526296496
In [5]: pro
Out[5]: <tushare.pro.client.DataApi at 0x2362242dbb0>
In [6]: pro.new_share()
```

数据按照 Parquet 格式保存到磁盘。

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```
In [1]: import tushare as ts
In [2]:
In [2]: pro = ts.pro_api()
In [3]: df = pro.new_share()
In [4]: df.to_parquet("new_share.parquet")
访问 stock basic 接口,并将数据保存为 stock basic.parquet 文件
In [1]: import tushare as ts
In [2]: pro = ts.pro_api()
in [3]: df = pro.new_share()
In [5]: df
out[5]:
        ts_code sub_code name ipo_date ...
                                                   pe limit_amount
                                                                      func
ot
0
      603014.SH
                  732014
                          威高血净
                                    20250508
                                                     0.00
                                                                   1.10
  0.00
1
      301595.SZ
                  301595
                          太力科技
                                    20250508
                                                     0.00
                                                                   0.65
  0.00
      688755.SH
                  787755
2
                          汉邦科技
                                    20250507
                                                     0.00
                                                                   0.50
  0.00
3
      301636.SZ
                  301636
                          泽润新能
                                    20250428
                                                    17.57
                                                                   0.45
  0.00
      920068.BJ
                  920068
                          天工股份
                                    20250428
                                                    14.98
                                                                 255.00
  0.00
1995
     300777.SZ
                  300777
                          中简科技
                                    20190506
                                                    22.98
                                                                   1.10
  0.04
1996 603267.SH
                  732267
                          鸿远电子
                                    20190430
                                                    16.50
                                                                   1.60
  0.03
                                                                  22.00
1997 600989.SH
                  730989 宝丰能源 20190430
                                                    22.07
In [6]: df.to_parquet("new_share.parquet")
                                              In [10]: df.columns
Out[10]:
In [7]: pro.stock_basic()
                                              Index(['ts_code', 'symbol', 'i
'list_date', 'act_name
dtype='object')
Out[7]:
                 symbol
                            name ... list_
        ts_code
0
      000001.SZ
                 000001
                             平安银行
      000002.SZ
                 000002
                             万科A ... 199
                                              In [11]: df = pro.stock_basic(
理委员
                 地方国企
                            国华网安
      000004.SZ
                 000004
2
                                              In [12]: df
Out[12]:
                                      ....
   民营企业
      000006.SZ
3
                 000006
                             深振业A
                                           1
                                                      ts_code
                                                               area
                 地方国企
000007
理委员会
                                                    000001.SZ
                                                                 深圳
      000007.SZ
                             全新好
                                           19
                                                    000002.SZ
                                                                 深圳
  民营企业
                                                                 深圳
                                              2
                                                    000004.SZ
                                              3
                                                    000006.SZ
                                                                 深圳
      920111.BJ
                 920111
                             聚星科技
5410
                                                    000007.SZ
                                       ...
                                                                 深圳
None
                                              5410
5411
      920116.BJ
                 920116
                             星图测控
                                                    920111.BJ
                                                               None
None
                                              5411
                                                    920116.BJ
                                                               None
```

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6. 通过 perspective-python 软件包查看 polars. DataFrame 数据, 实践交互式可视化。

