第三周学习笔记

1. 在 Git Bash 终端配置 conda init

```
Administrator@MICROSO-J56DDR4 MINGW64 ~ (main) $ which conda /c/Users/Administrator/anaconda3/Scripts/conda Administrator@MICROSO-J56DDR4 MINGW64 ~ (main) $ conda init bash
```

重新启动后的界面如下

```
(base)
Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
```

再在 VScode 里删除 13 行

最后打开 base 在前面

MINGW64:/c/Users/Administrator

```
(base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ |
```

2. 使用 conda info 命令查看本机 Conda 的配置信息

3. 使用 conda env list 命令查看已有的 Conda 环境的名称和路径

4. 使用 conda create 命令创建两个 Conda 环境,一个里面安装 python3. 12 和 requests 软件包

```
(base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda create -n ptsd python=3.12 requests
Channels:
   - defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
## Package Plan ##
environment location: C:\Users\Administrator\anaconda3\envs\ptsd
```

另一个里面安装 python3.9、pandas 和 statsmodels 软件包

```
(base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda create -n ptsd2 python=3.9 pandas statsmodels
wARNING: A directory already exists at the target location 'C:\Users\Administrator\anaconda3\envs\ptsd2'
but it is not a conda environment.
```

切换环境

```
(base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main) $ conda env list
  conda environments:
                                          C:\Users\Administrator\anaconda3
C:\Users\Administrator\anaconda3\envs\ptsd
C:\Users\Administrator\anaconda3\envs\ptsd2
base
ptsd
ptsd2
```

激活 ptsd

```
(base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
 conda activate ptsd
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
```

验证 Python 版本

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
 which python
/c/Users/Administrator/anaconda3/envs/ptsd/python
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
 python --version
Python 3.12.9
```

验证软件包版本

```
(base) Administrator@MICROSO-J56DL

$ conda activate ptsd

Python 3.12.9 | packaged by Anacor

Type "help", "copyright", "credits

>>> import requests

File "<stdin>", line 1
        import requests
IndentationError: unexpected inder
 >>> import requests
Traceback (most recent call last):
File "<stdin>", line 1, in <modu
NameError: name 'request' is not o
 >>> requests.__version_
```

5. 使用 conda list 命令显示 Conda 环境里的软件包列表及其版本信息

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda list
  packages in environment at C:\Users\Administrator\anac
  Name
                                   Version
                                   1.0.9
                                                        py312h5da7b33_
h2bbff1b_
haa95532_
brotli-python
bzip2
ca-certificates
                                   2025.2.25
                                   2025.1.31
3.3.2
2.6.4
certifi
                                                        py312haa95532_
                                                            pyhd3eb1b0
charset-normalizer
expat
                                                              h8ddb27b_
                                                        py312haa95532
idna
                                                        hd77b12b
h3f729d1
py312haa95532
py312haa95532
libffi
                                   3.0.16
25.0
1.7.1
3.12.9
openssl
pip
pysocks
                                                        h14ffc60_
py312haa95532_
python
                                   2.32.3
75.8.0
requests
setuptools
                                                        py312haa95532
```

6. 使用 conda install 命令往 Conda 环境里安装 ipython, 并验证版本

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda install ipython
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda list
# packages in environment at C:\Users\Administrator\anaconda3\envs\ptsd:
```

7. 在终端复制 conda config --set show_channel_urls yes, 安装.condarc 再在 VS code 里粘贴下面命令

channels:

- defaults

show_channel_urls: true

default_channels:

- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/r
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/msys2

custom channels:

conda-forge: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud

pytorch: https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud

清除缓存

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda clean -i
Will remove 1 index cache(s).
Proceed ([y]/n)? y

(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
$ conda create -n myenv numpy
Channels:
   - defaults
```

将 defaults 改为 conda-forge

8. 使用 pip install 命令往 Conda 环境里安装 Python 软件包,并验证版本

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main)
5 pip install tushare
Collecting tushare
    Downloading tushare-1.4.19-py3-none-any.whl.metadata (3.1 kB)
```

9. 配置 PyPI 清华镜像,复制代码 ,再用 pip install 命令安装 tushare,并检查版本

python -m pip install --upgrade pip pip config set global.index-url

https://mirrors.tuna.tsinghua.edu.cn/pypi/web/simple

10. 导出 environment.yml Conda 环境配置文件

```
(ptsd) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main) $ conda env export -f environment.yml 删除 Conda 环境 (base) Administrator@MICROSO-J56DDR4 MINGW64 ~ (main) $ conda env remove -n ptsd
```

用 environment.yml 配置文件重建 Conda 环境

- 11. 借助豆包理解 Conda 与 Python 的关系,理解 Conda-Forge 与 Conda 的关系,理解 Python 解释器、第三方软件包、PyPI 软件仓库、以及程序/软件包的路径问题。
- 12. 创建 environment. yml 项目

```
! environment.yml ×
! environment.yml
1 name: prj1
2 channels:
3 - conda-forge
4 dependencies:
5 - python3.12
```

创建 main. py 项目

```
main.py > ...

def main():
    print("Hello, conda!")

def main():
    print("Hello, conda!")

main()
```