

第一周学习报告——准备开发环境

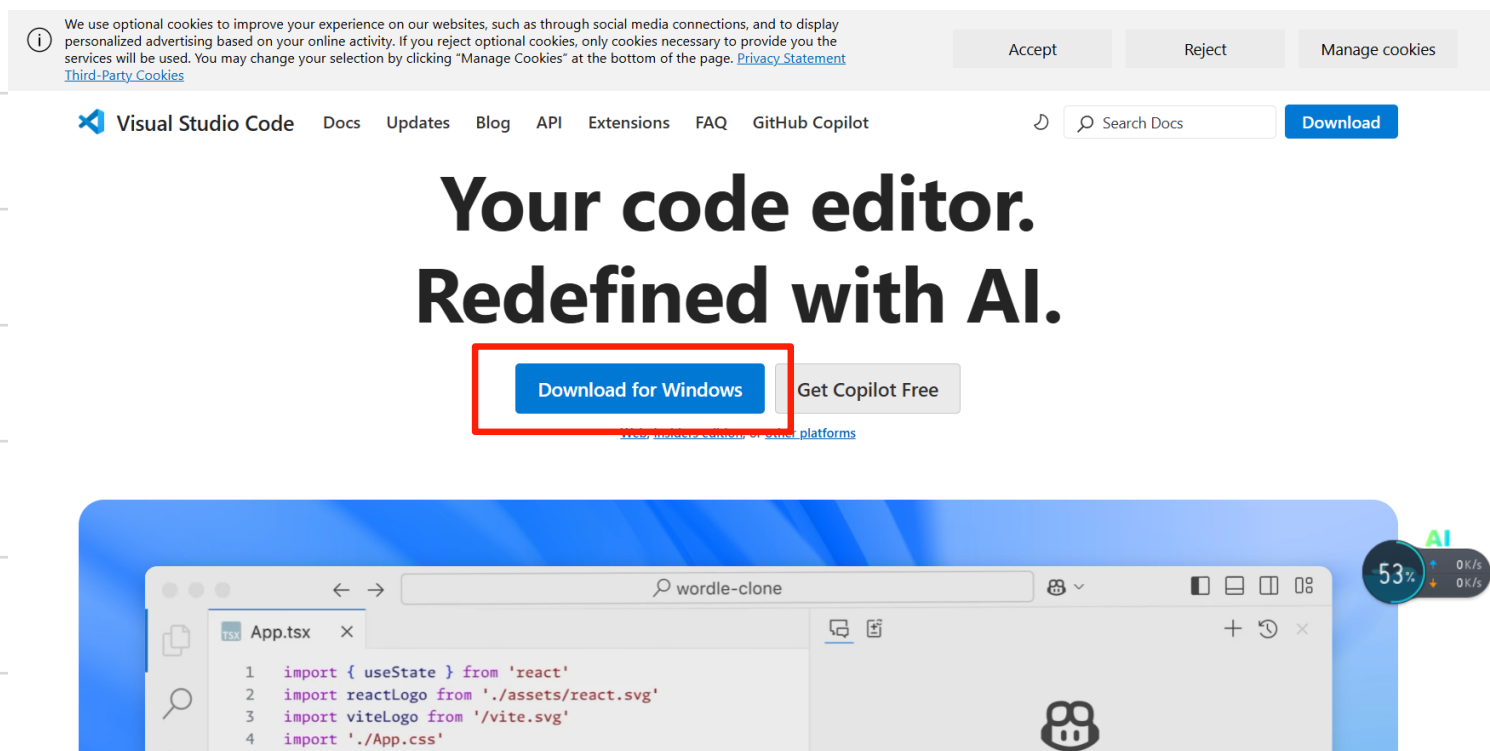
任务目标

我们需要在自己的个人计算机 (PC 或者 Mac) 上完成以下操作，从而为学习软件开发做好准备：

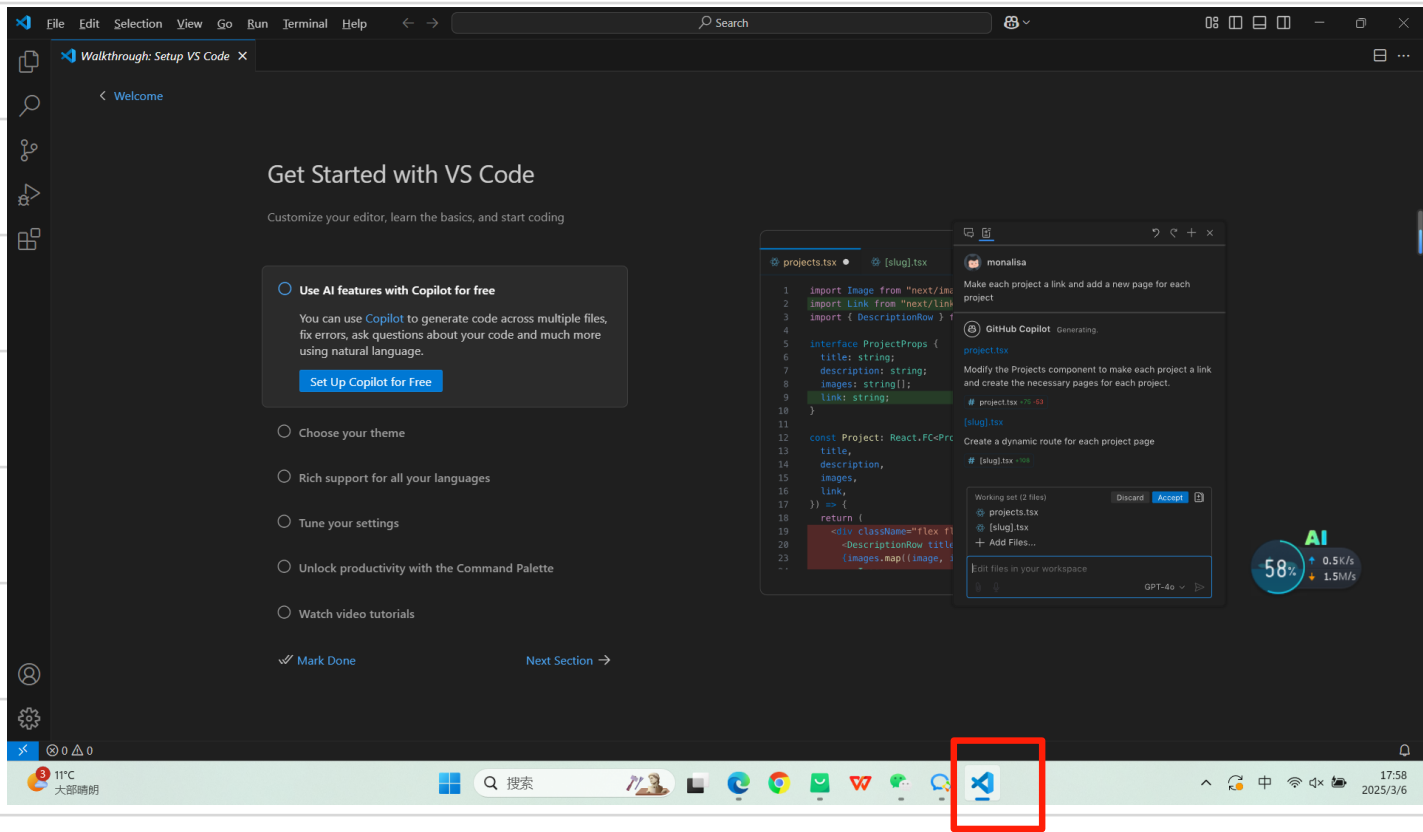
1. 安装 [VS Code](#) (代码编辑器)
2. 安装 [Git](#) (代码版本管理软件)
3. 安装 [Anaconda](#) (Python 解释器)
4. 访问 [GitCode](#) (代码托管平台) 注册用户，然后保持登录
5. 生成自己设备的 SSH 密钥 (公钥-私钥对)，将公钥添加到自己的 [GitCode](#) 安全设置里 ([参考](#))
6. 去 [第01周打卡](#) 仓库阅读说明，完成学习报告的提交

VS Code

1. ①从任务目标里点开网址点击下载

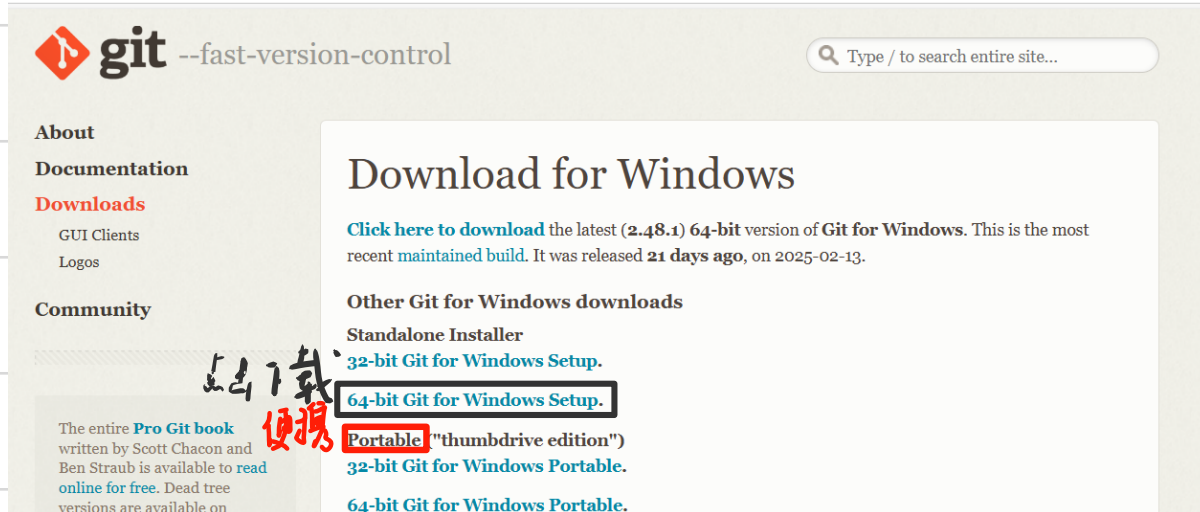
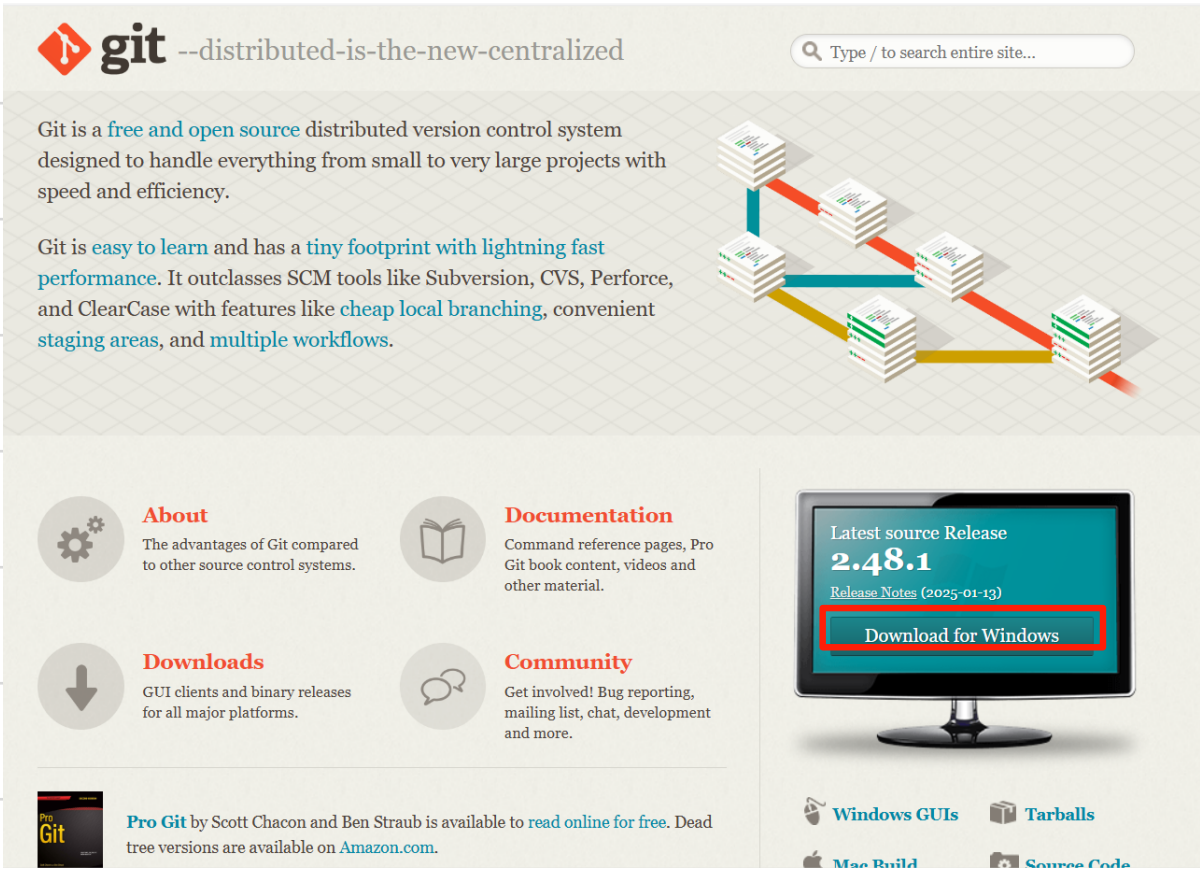


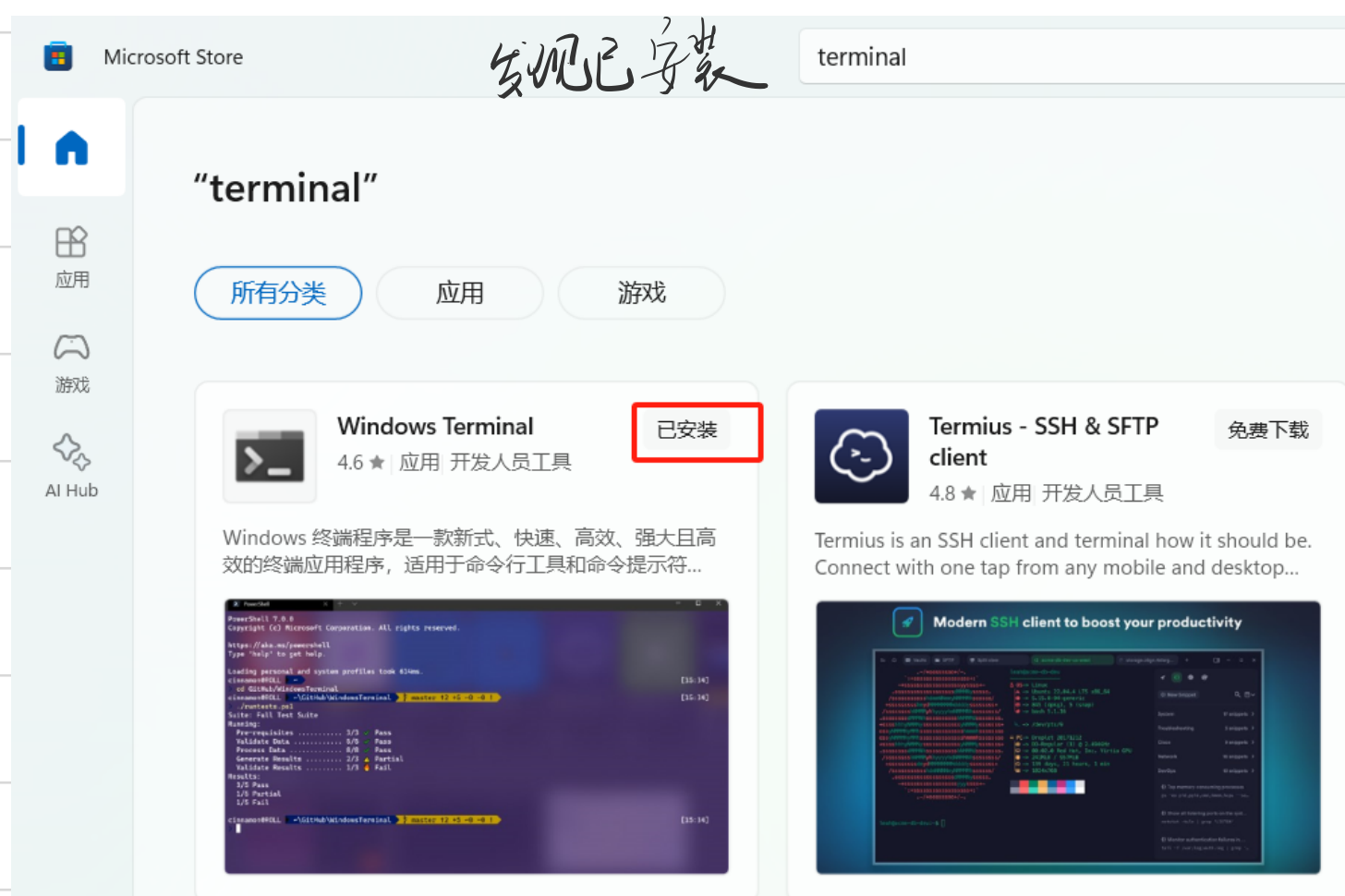
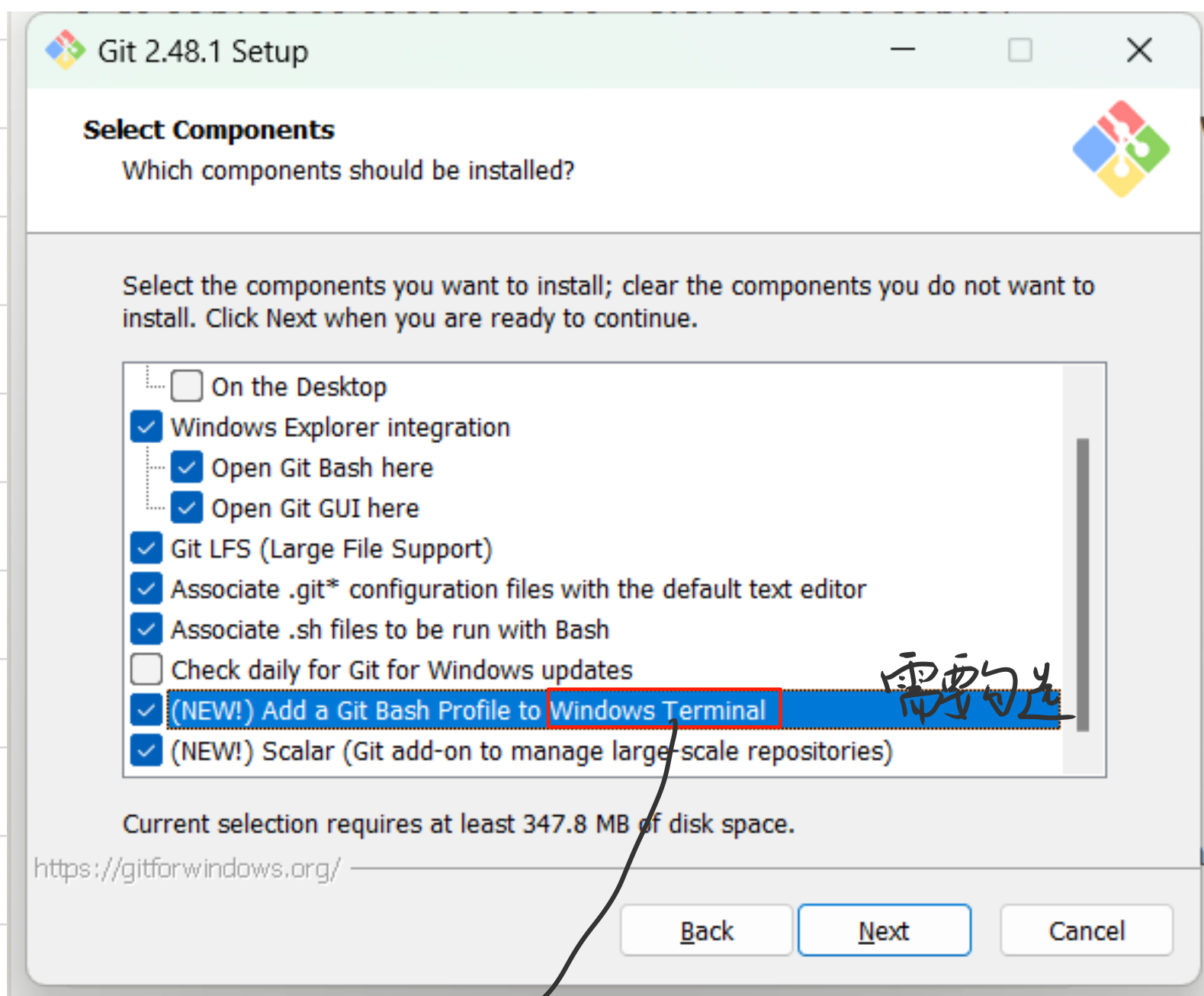
② 按步骤下载并将 VS code 固定在任务栏，任务完成



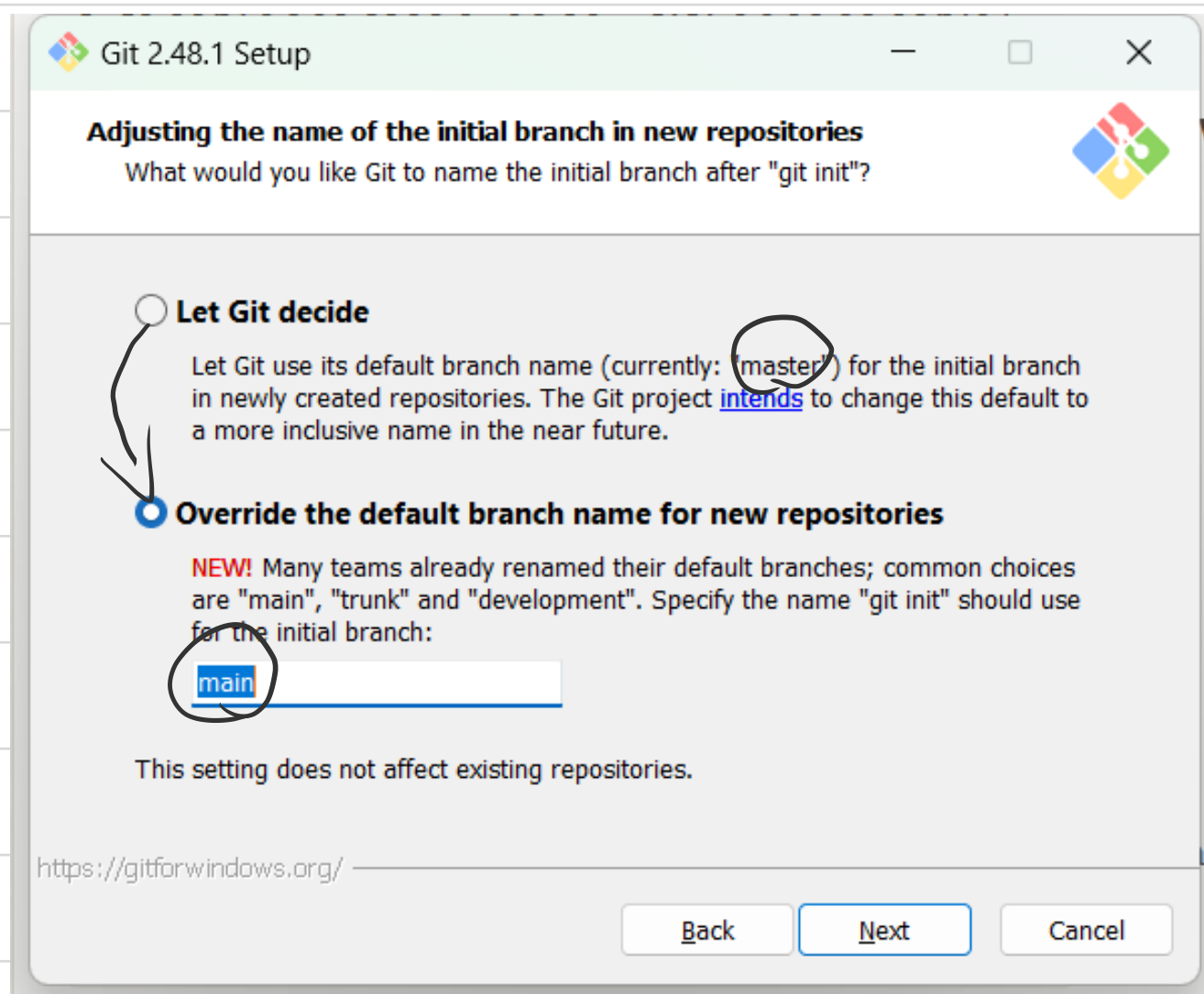
2. Git

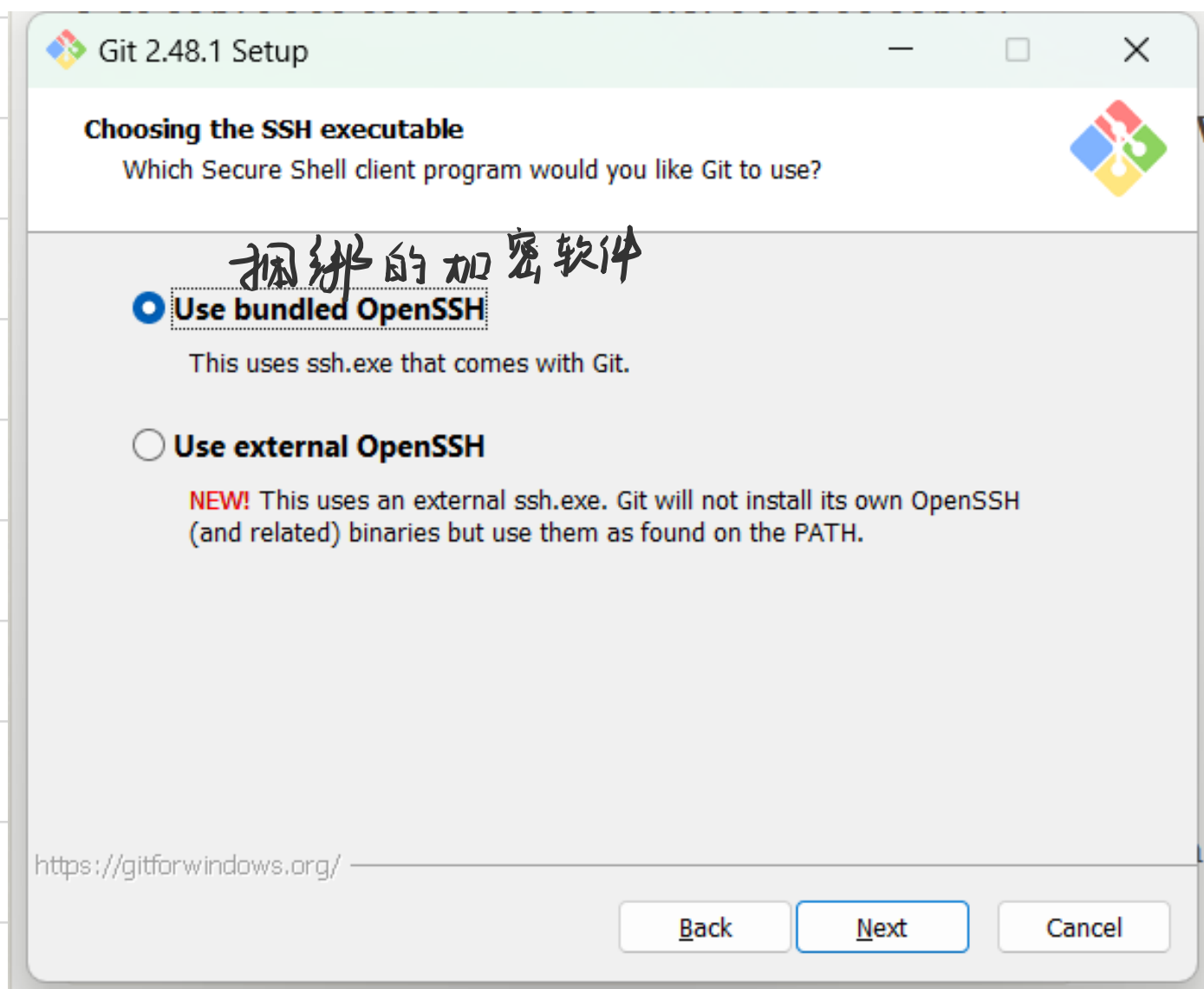
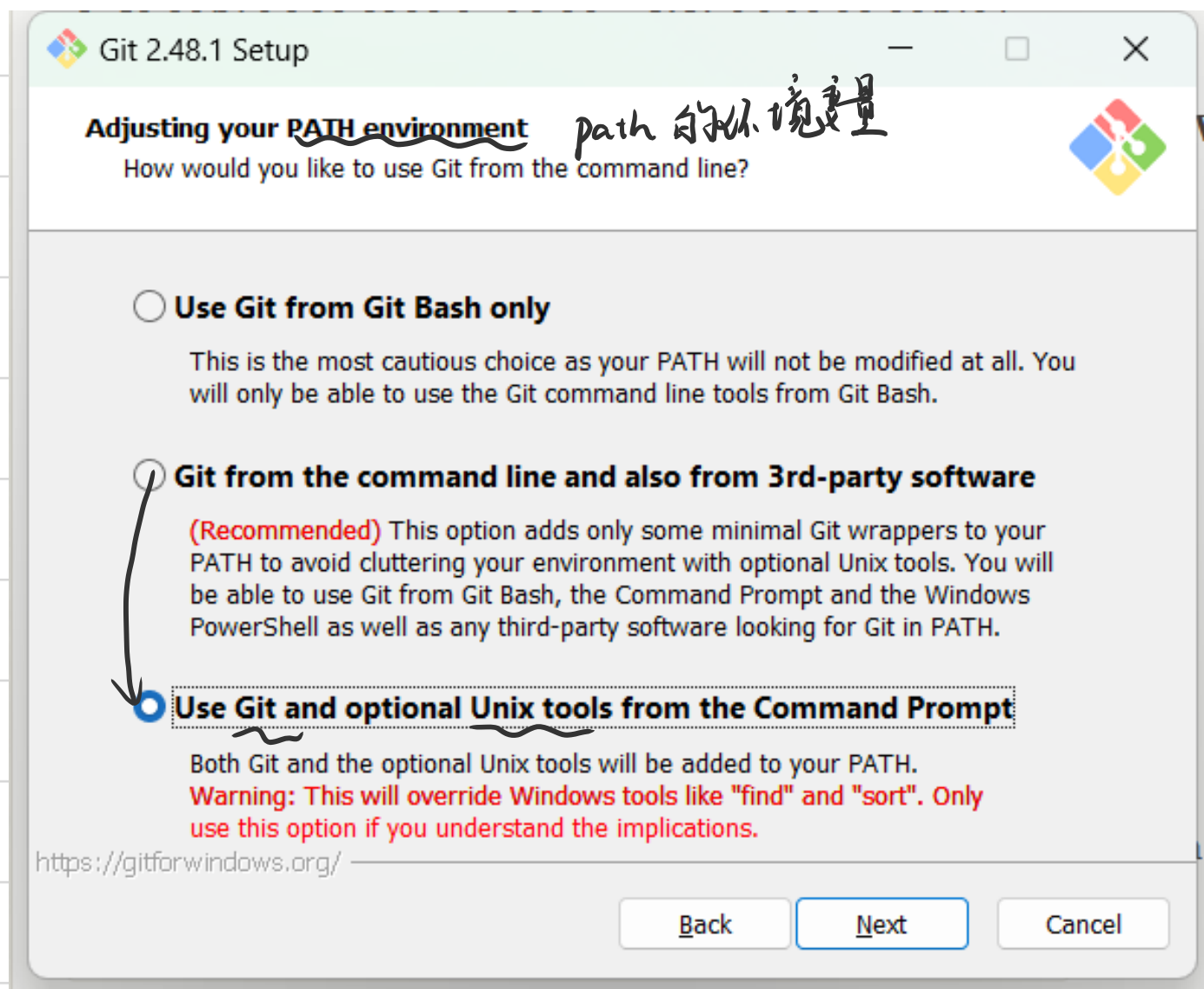
从任务栏点开网址





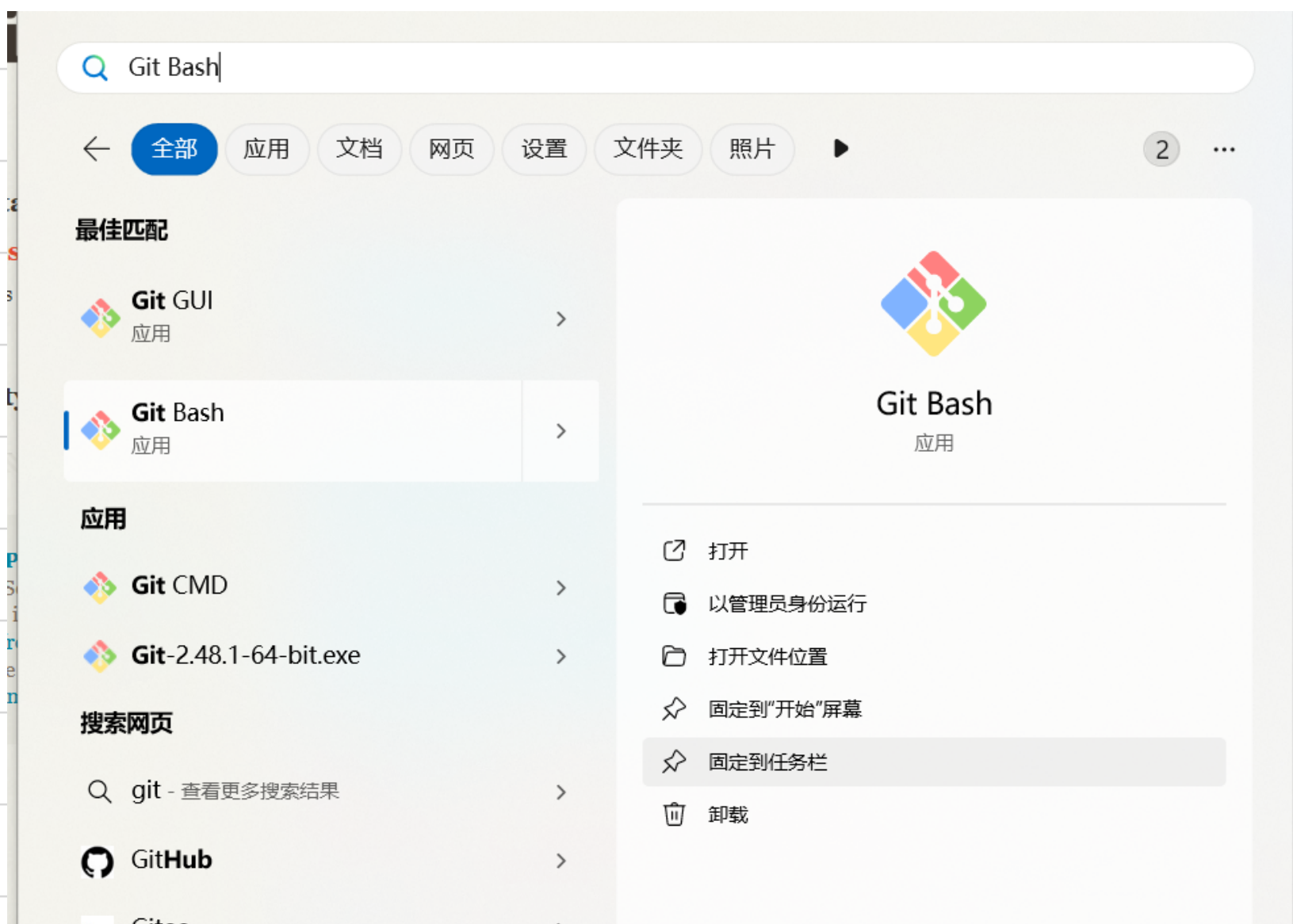
继续往下点 将编辑器换为 VS Code



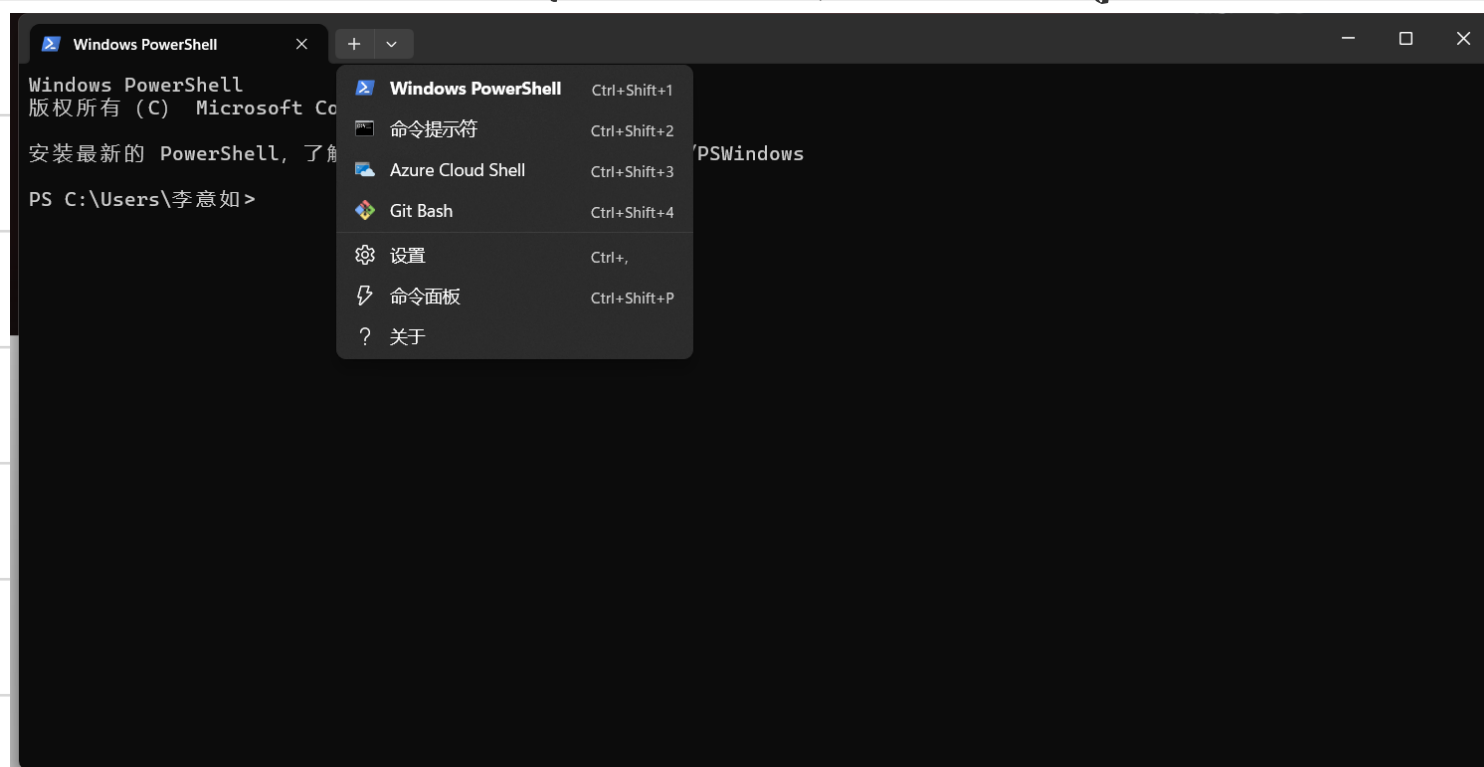


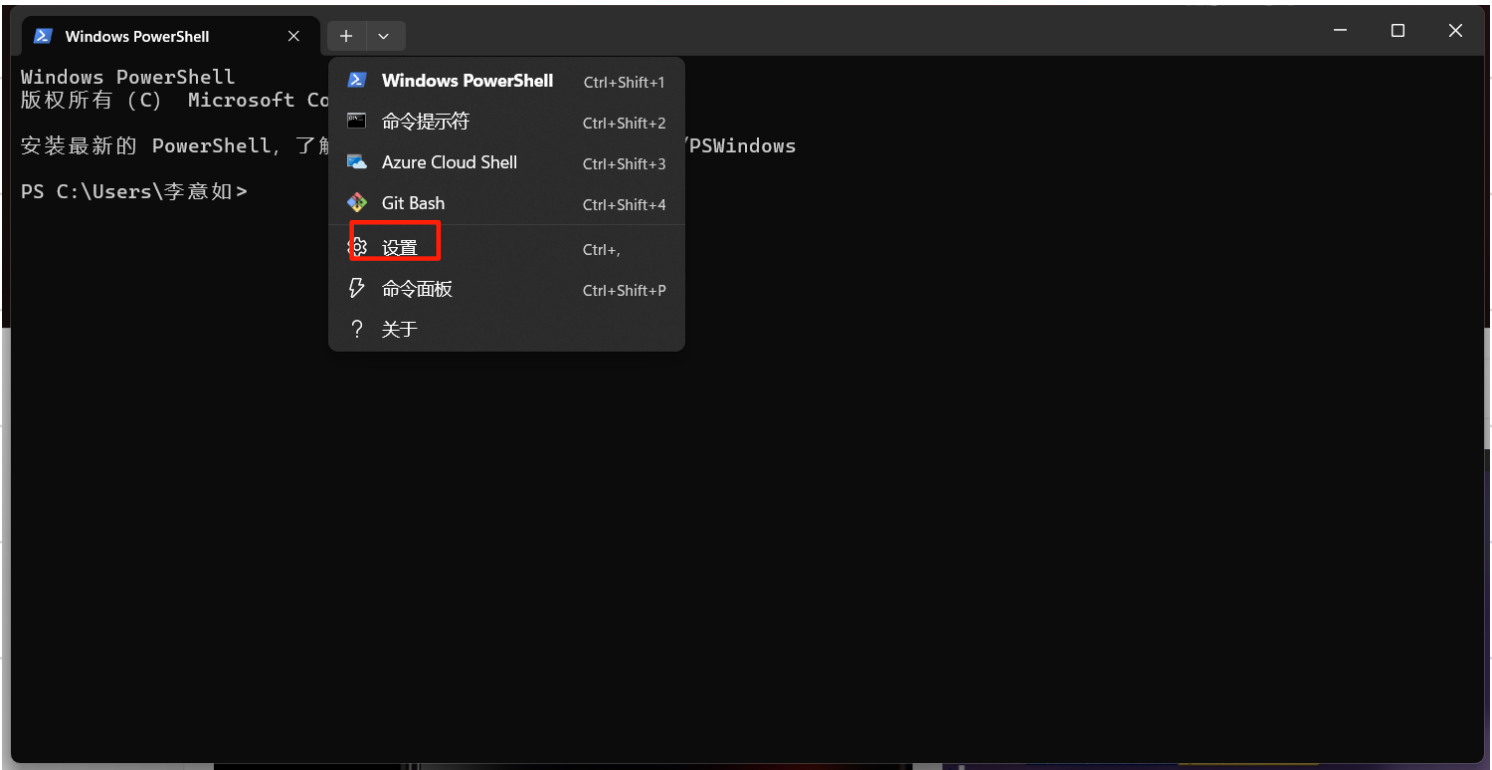
接下来的选项都选择默认

下载后在搜索框里选 Git Bash，并固定到任务栏。

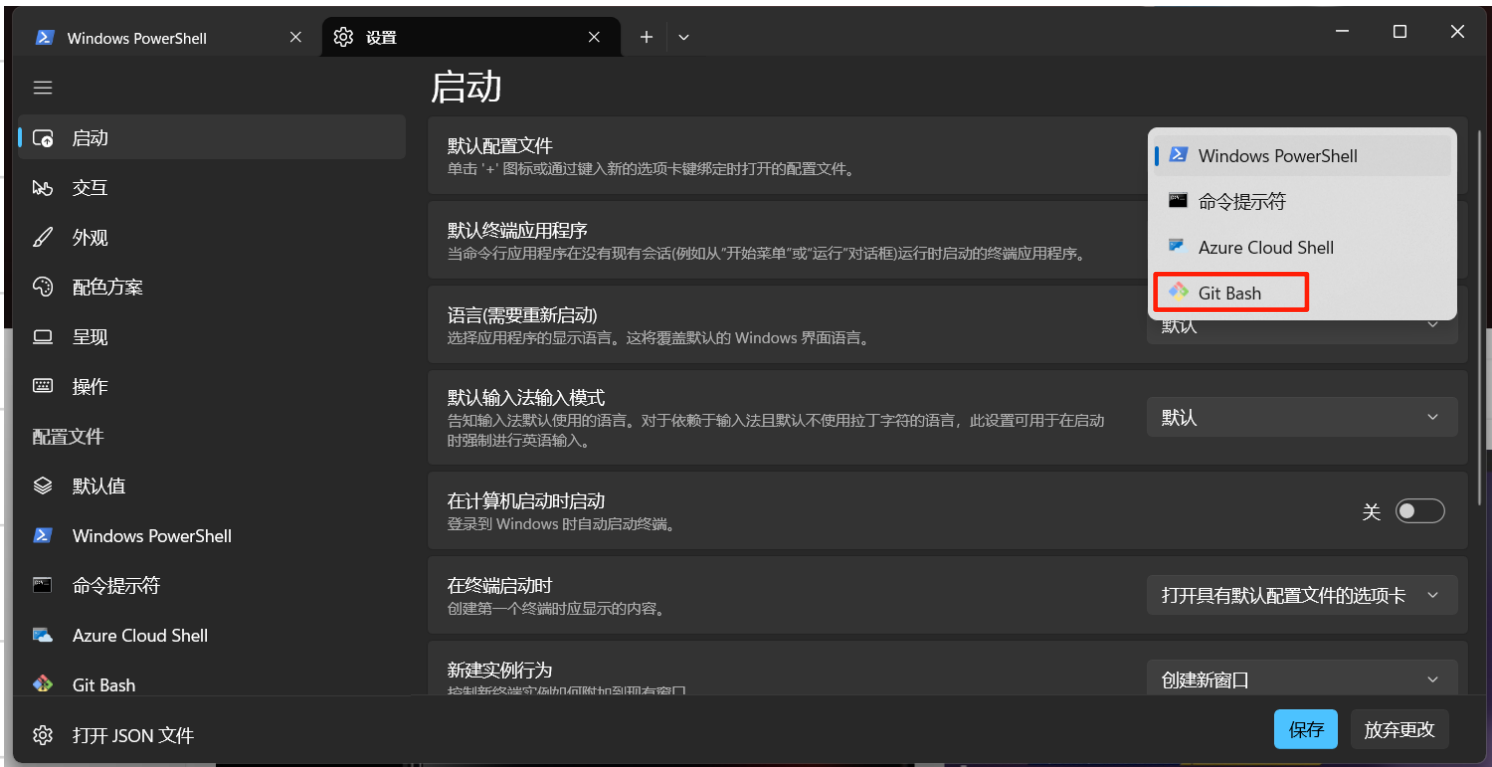


此时打开 terminal 终端点“v”位置会与现有 Git Bash，更加推荐使用终端





将终端默认配置文件改为 Git Bash，从此打开终端自动启动 Git Bash



推荐将光标形状改为“实心框” 实心框占一个字符

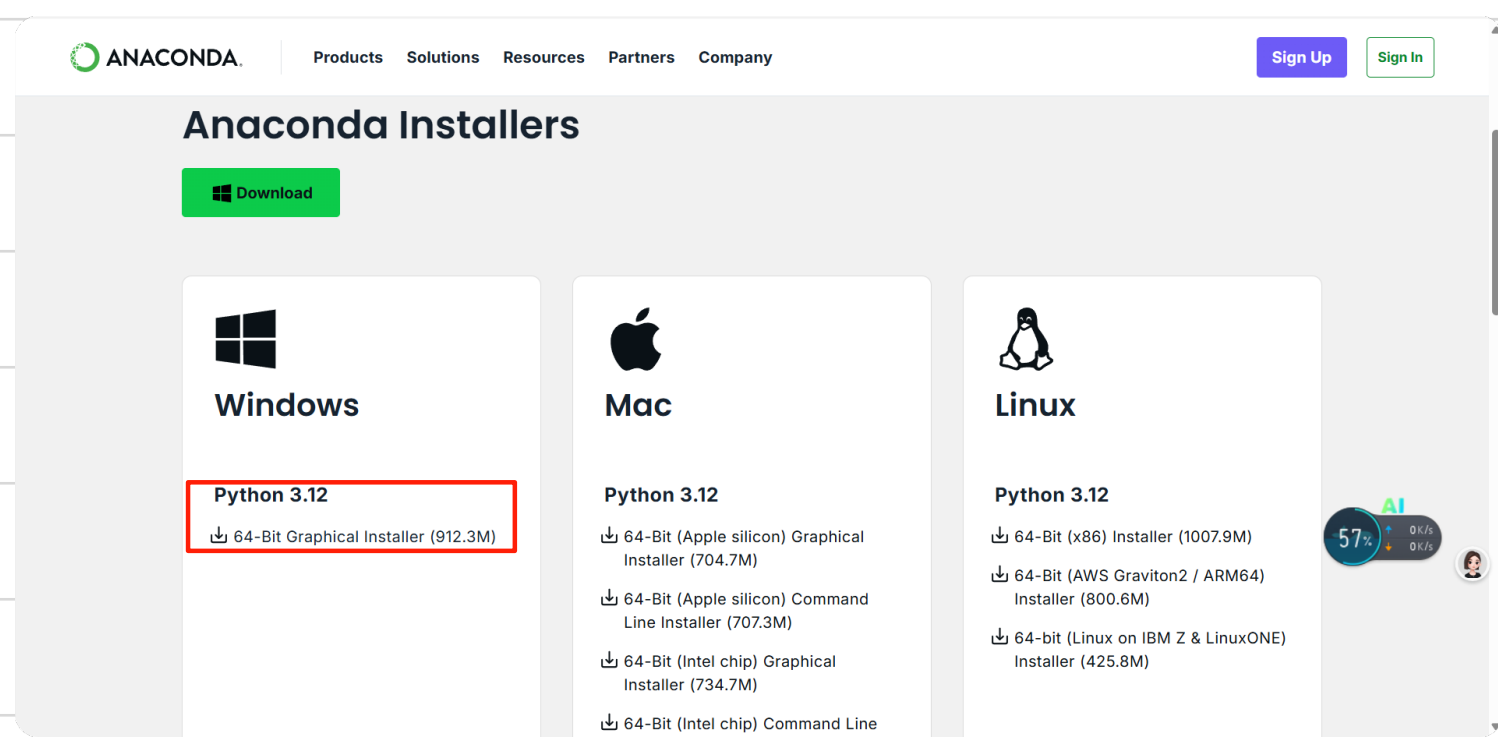


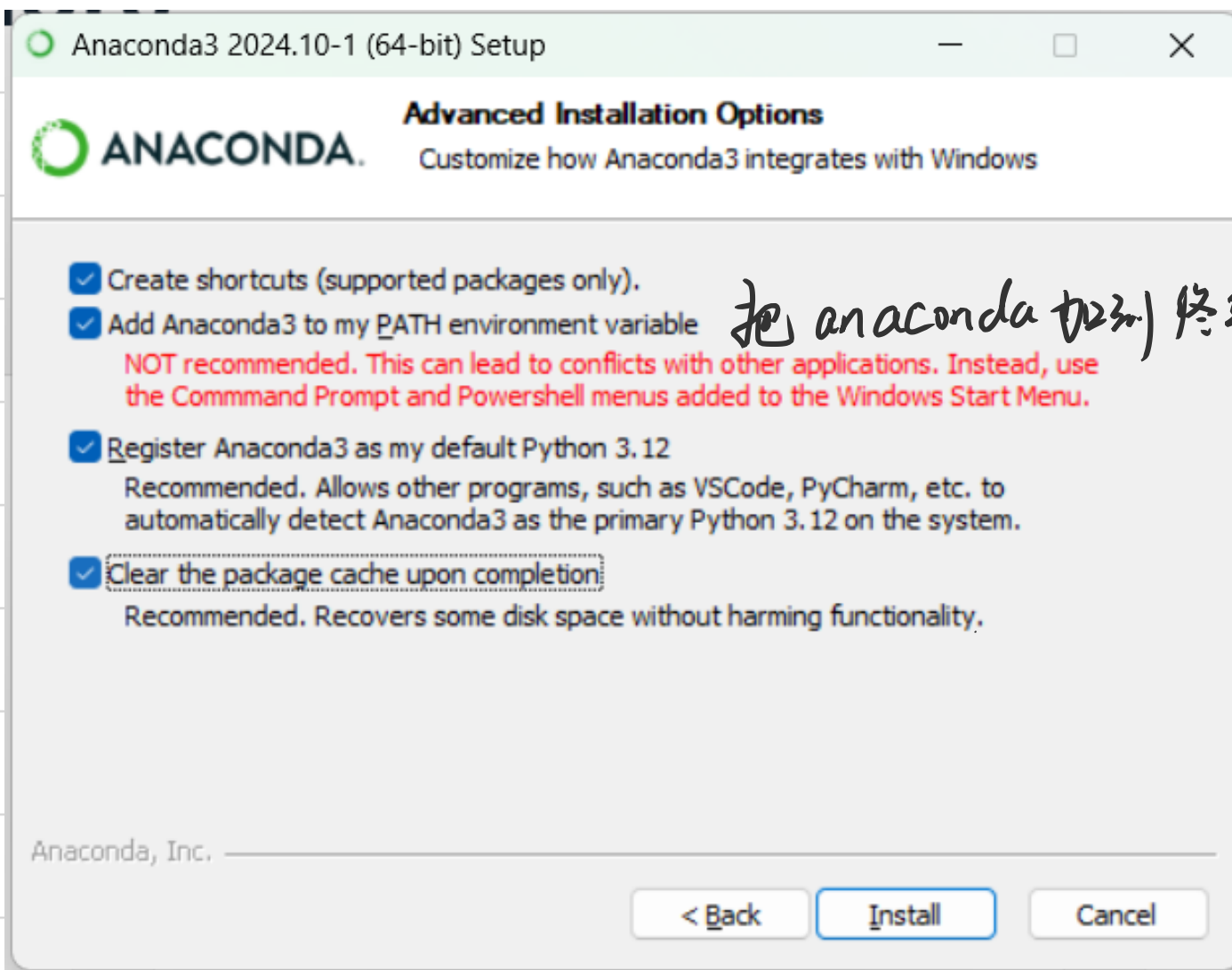
豆包的各种快捷键

通用	
唤起 AI 启动器	Alt + Space
唤起侧边栏	Ctrl + K
截图提问	Shift + Alt + A
翻译当前网页	Alt + 1
触发鼠标悬停时翻译	不做任何事
总结当前网页	Alt + 2
隐藏 / 打开双语字幕（鼠标在视频上时）	H
显示和隐藏窗口	点击设置快捷键
语音通话	
唤起语音通话	Alt + D

b. Anaconda

Anaconda 是一个集成了多种数据科学和机器学习工具的 Python 发行版，通过其环境管理工具 Conda，用户可以轻松创建和管理不同项目所需的 Python 环境，同时它还提供了图形化界面和丰富的预安装库，简化了开发流程。





把 anaconda 加入到终端里面

在终端里输入 conda 回车 同样输入 python 也可使用

```
MINGW64/c/Users/李意如 x + v
李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ conda
usage: conda-script.py [-h] [-v] [--no-plugins] [-V] COMMAND ...

conda is a tool for managing and deploying applications, environments and packages.

options:
  -h, --help                Show this help message and exit.
  -v, --verbose              Can be used multiple times. Once for detailed output, twice for INFO logging, thrice for DEBUG
                             logging, four times for TRACE logging.
  --no-plugins              Disable all plugins that are not built into conda.
  -V, --version              Show the conda version number and exit.

commands:
  The following built-in and plugins subcommands are available.

COMMAND
  activate                  Activate a conda environment.
  build                     Build conda packages from a conda recipe.
  clean                     Remove unused packages and caches.
  commands                  List all available conda subcommands (including those from plugins). Generally only used by
                             tab-completion.
  compare                   Compare packages between conda environments.
  config                    Modify configuration values in .condarc.
  content-trust              Signing and verification tools for Conda
  convert                   Convert pure Python packages to other platforms (a.k.a., subdirs).
  create                     Create a new conda environment from a list of specified packages.
  deactivate                 Deactivate the current active conda environment.
  debug                     Debug the build or test phases of conda recipes.
```

Python 和 ipython 区别 例下图的高亮

```
MINGW64:/c/Users/李意如
李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ ipython
Python 3.12.7 | packaged by Anaconda, Inc. | (main, Oct  4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 8.27.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: print('hello')
hello

In [2]:
Do you really want to exit ([y]/n)? y

李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ python
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 22:22:05) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print('hello')
hello
>>>
```

4. 访问 Git Code 注册用户, 然后保持登录.

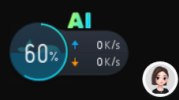
5 生成密钥.

```
MINGW64:/c/Users/李意如
李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ ssh-keygen -t ed25519 -C "lyr15836307987@163.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/李意如/.ssh/id_ed25519):
Created directory '/c/Users/李意如/.ssh'.
Enter passphrase for "/c/Users/李意如/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/李意如/.ssh/id_ed25519
Your public key has been saved in /c/Users/李意如/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:+56YAXwIHpgAJ9Zb9EbeCJMKDEcrXPTfjo8mQ1uRR+o lyr15836307987@163.com
The key's randomart image is:
+--[ED25519 256]--+
|0o.o.+..
|oB.=.o* o.
|..= *. =+.
|. + +o=..
|. =.S.
|. Eo.
|. o.o.
|. +.o= .
|. +.oo+
+----[SHA256]-----+

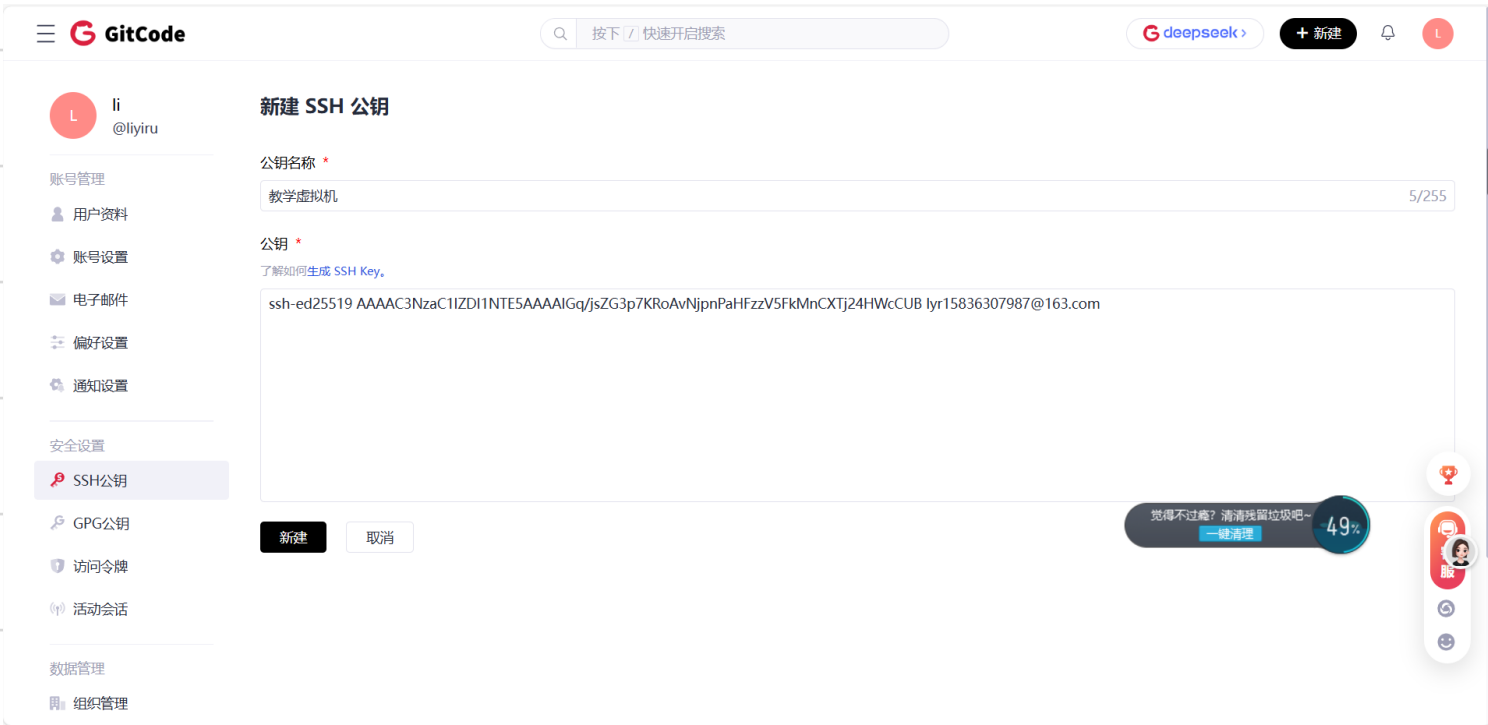
李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ cd.ssh
bash: cd.ssh: command not found

李意如@LAPTOP-9J8HOMDD MINGW64 ~
$ cat ~/.ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGq/jsZG3p7KR0AvNjpnPaHFzzV5FkMnCXTj24HWcCUB lyr15836307987@163.com
```

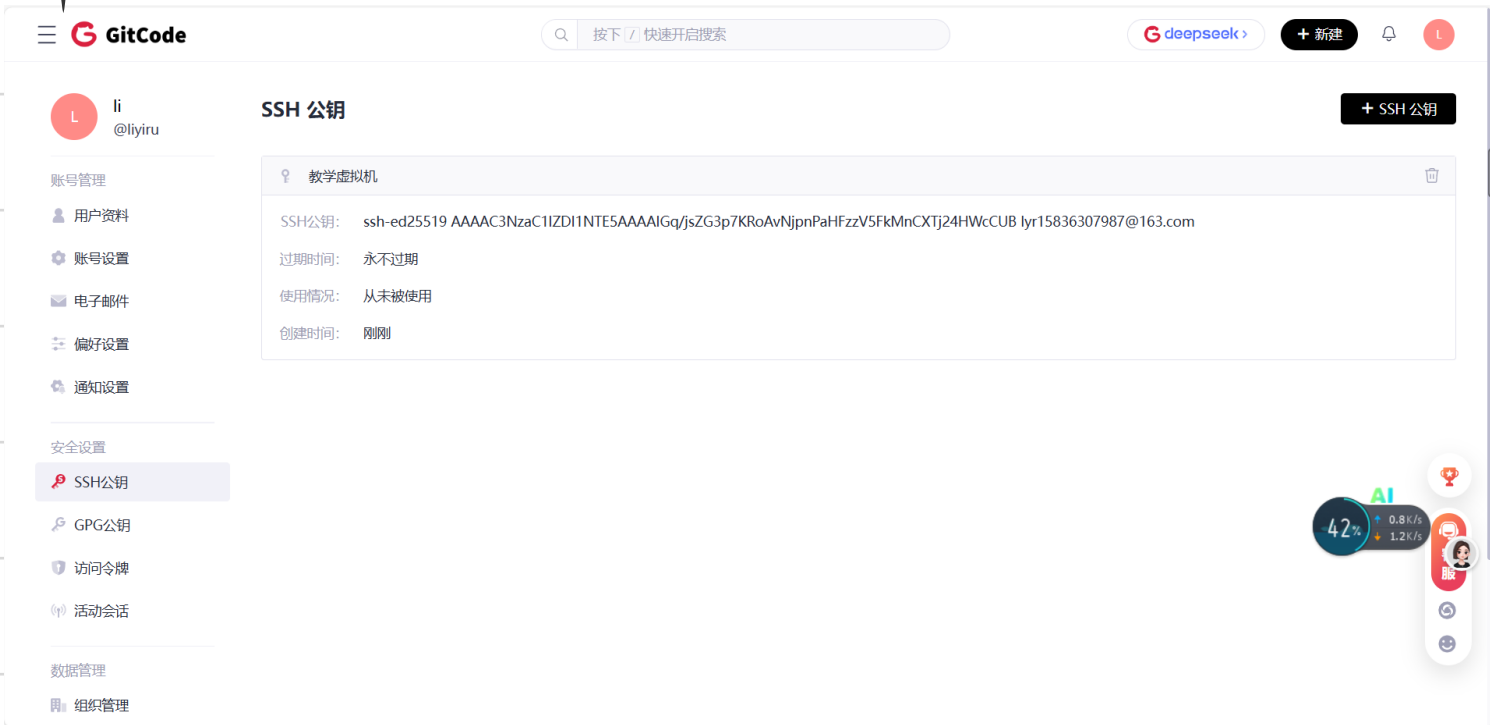
公钥复制



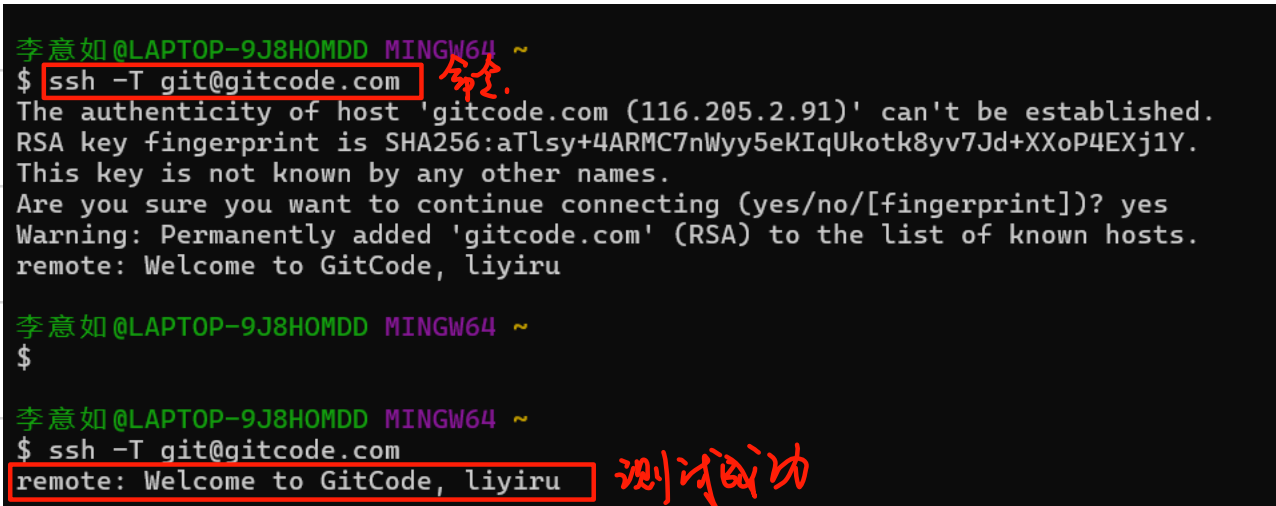
Gitcode - 设置 - SSH公钥 复制 新建



新建成功

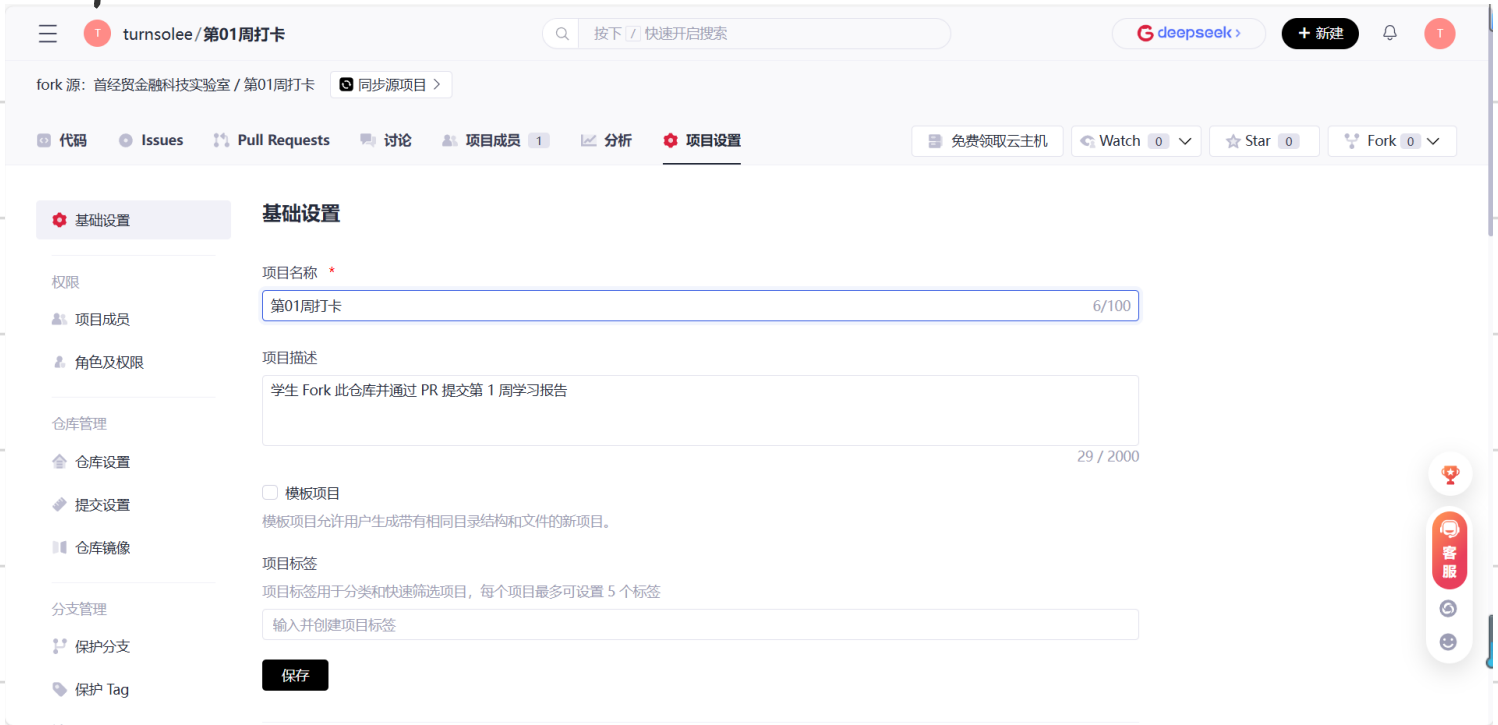


测试SSH连接



6. 学习报告的提交

fork 仓库创建



要完成以下任务

