

SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

DATE	20-02-2026
TEAM ID	LTVIP2026TMIDS90622
PROJECT NAME	SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES
MAXIMUM MARKS	2 MARKS

CHAPTER-6

6.1 PRE-REQUISITES

To complete this project, you must require the following software, concepts, and packages
Anaconda Navigator: Refer to the link below to download Anaconda Navigator

How to Install Anaconda Navigator

Step 1: Download Anaconda

Open your web browser.

Go to: <https://www.anaconda.com/download>

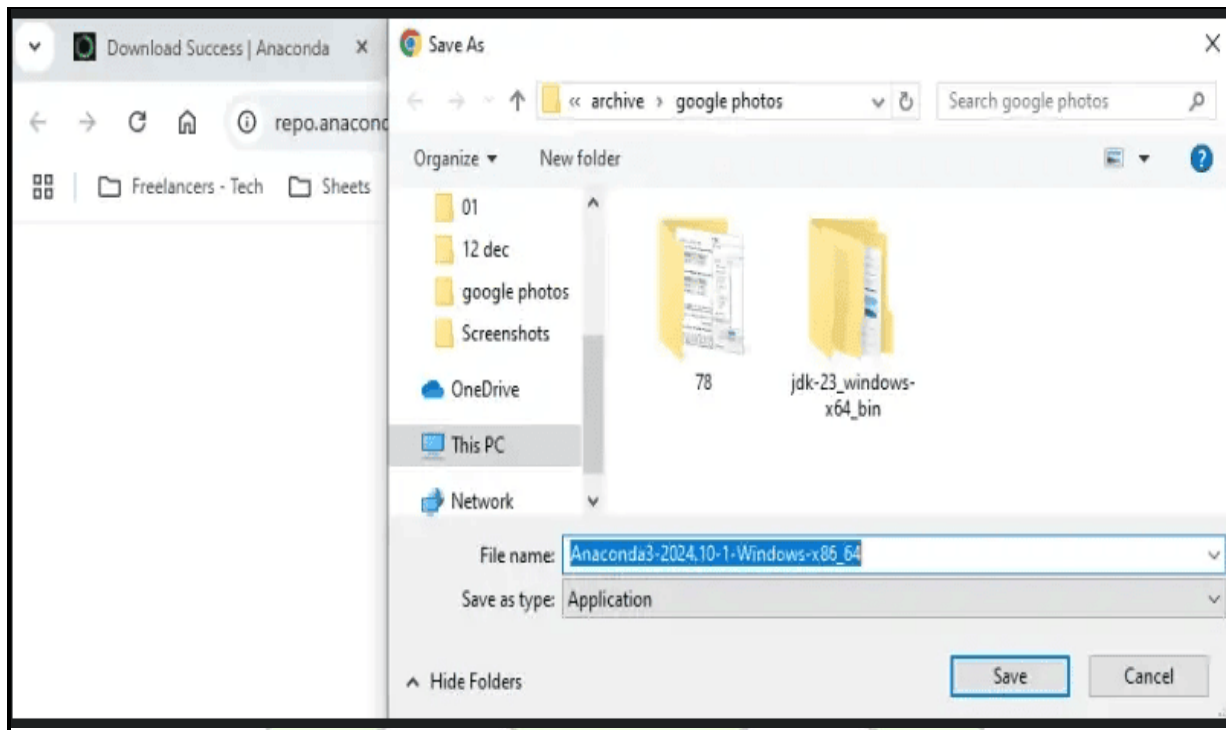
Select your Operating System:

- Windows

SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

- MacOS
- Linux

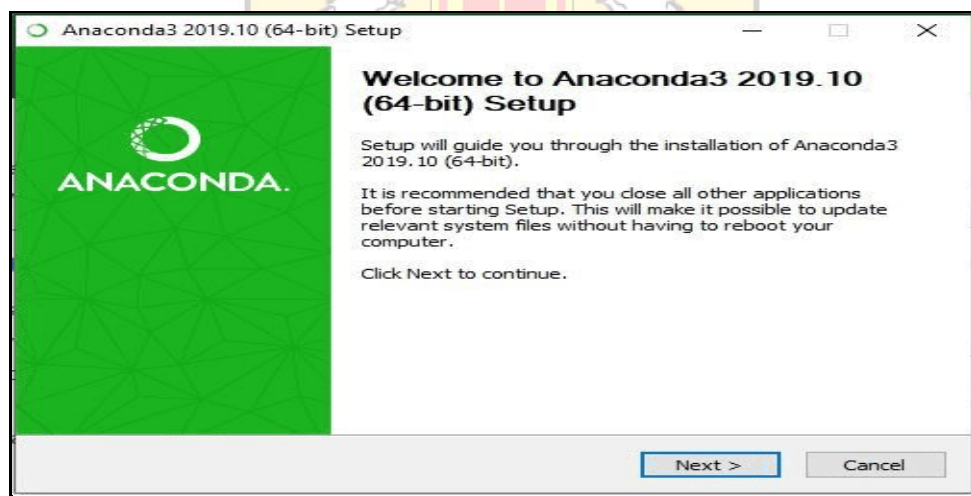
Download Anaconda Individual Edition (Free). Choose Python 3.x (64-bit) version (recommended).



Step 2: Install Anaconda For Windows

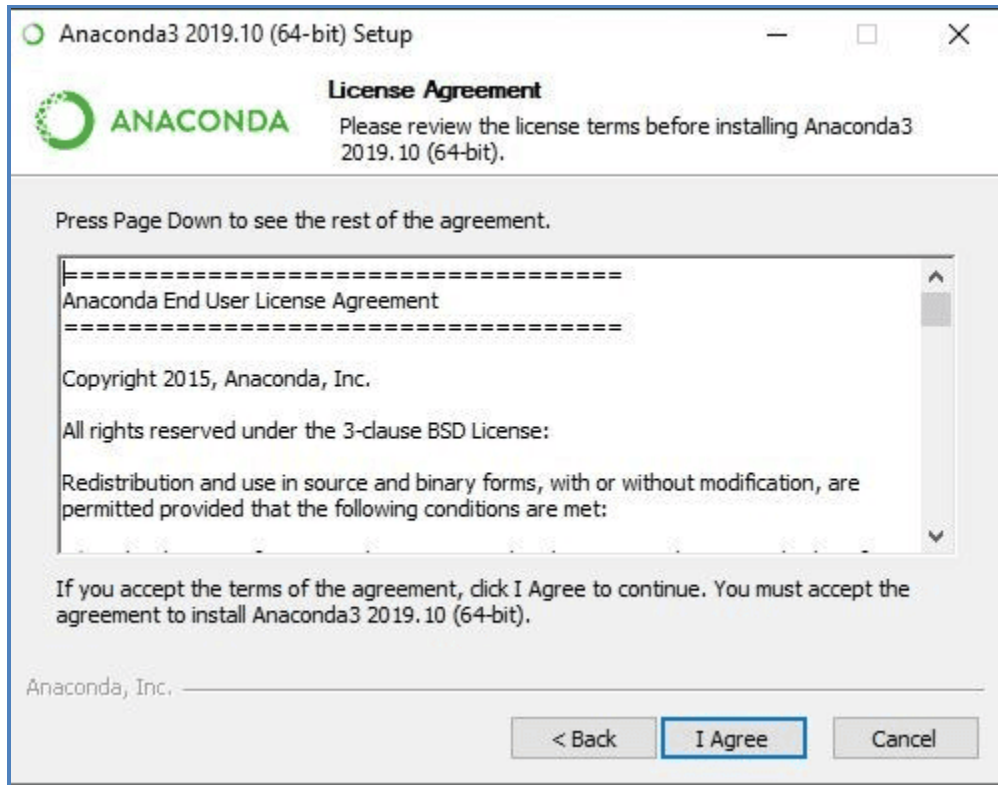
Double-click the downloaded .exe file.

Click Next

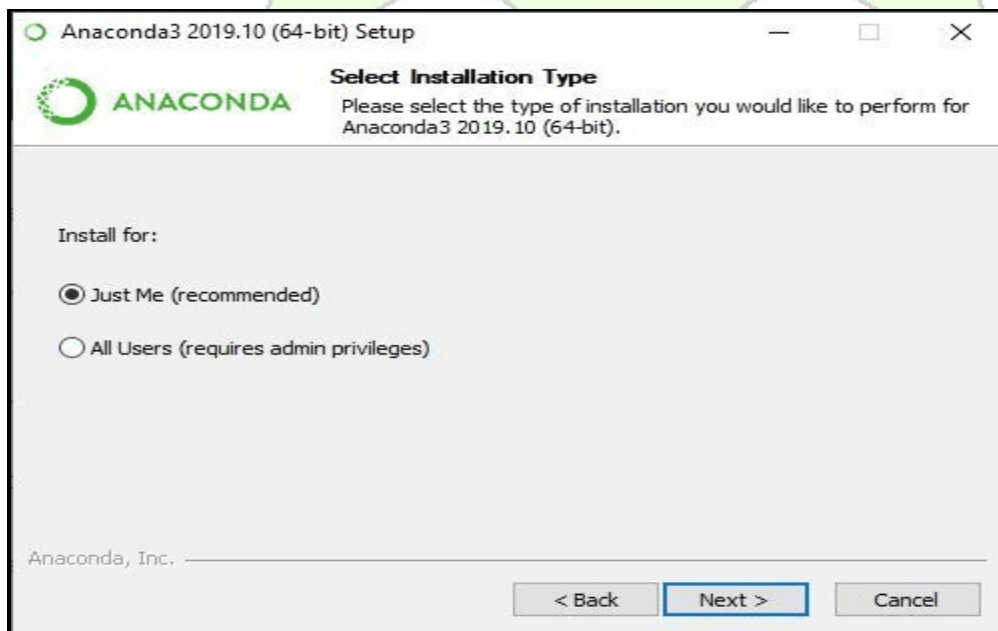


SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

3. Click I agree to accept the license.

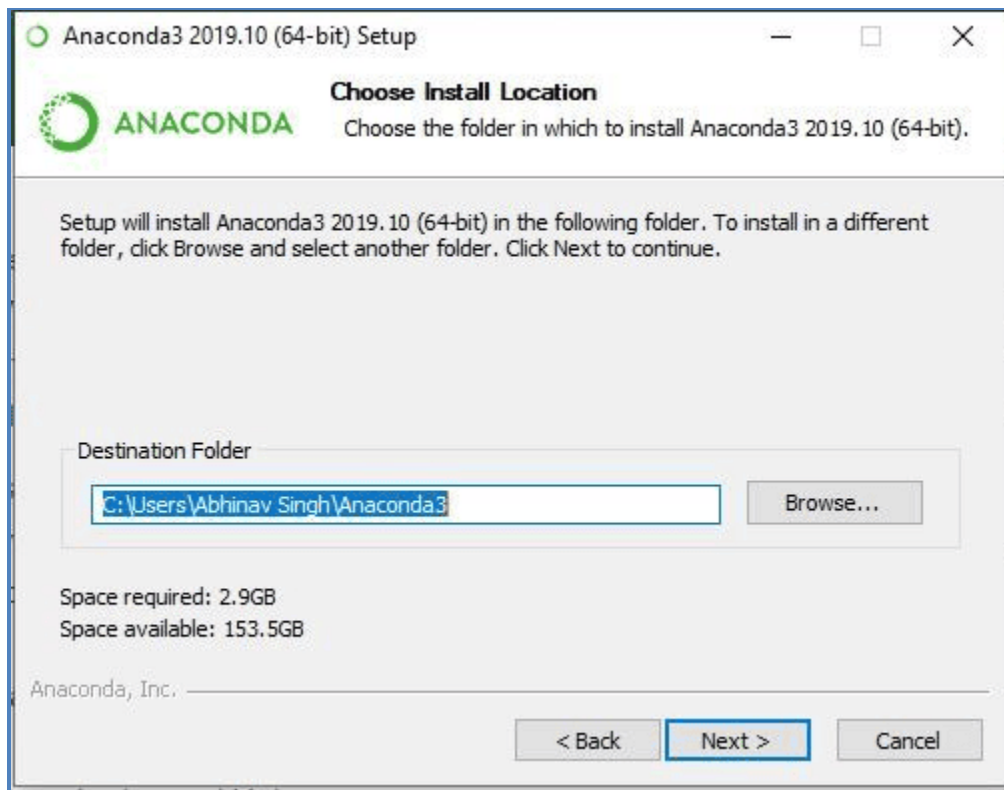


4. Select Just Me (recommended) → Click Next.

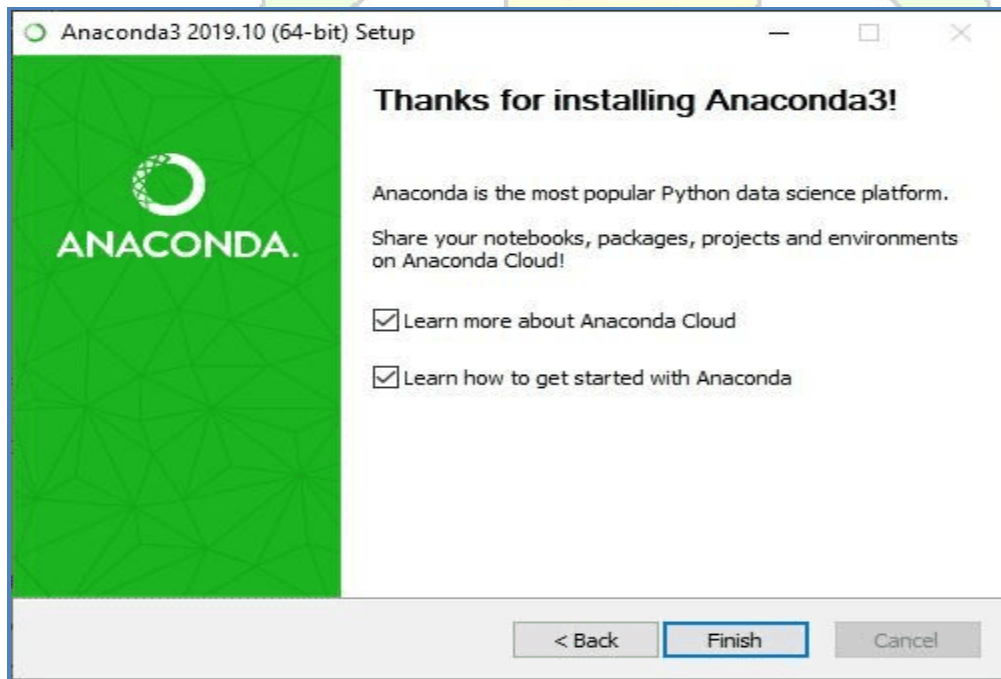


5. Choose the installation location where we need to install the anaconda software → Click Next.

SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES



6. Check Add Anaconda to PATH (optional but useful).
7. Check Register Anaconda as default Python.
8. Click Install.

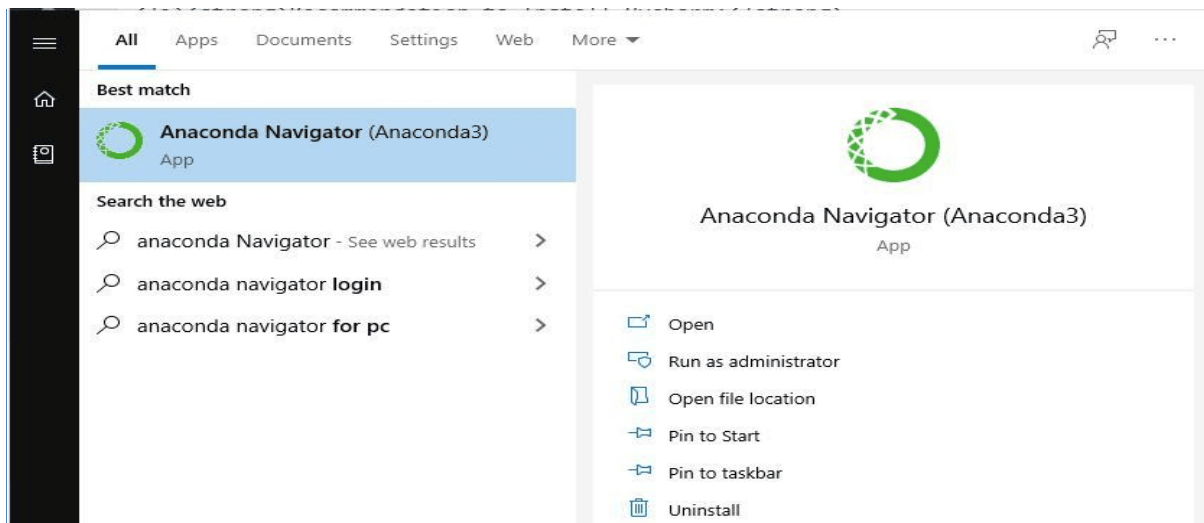


SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

9. After installation completes, click Finish.

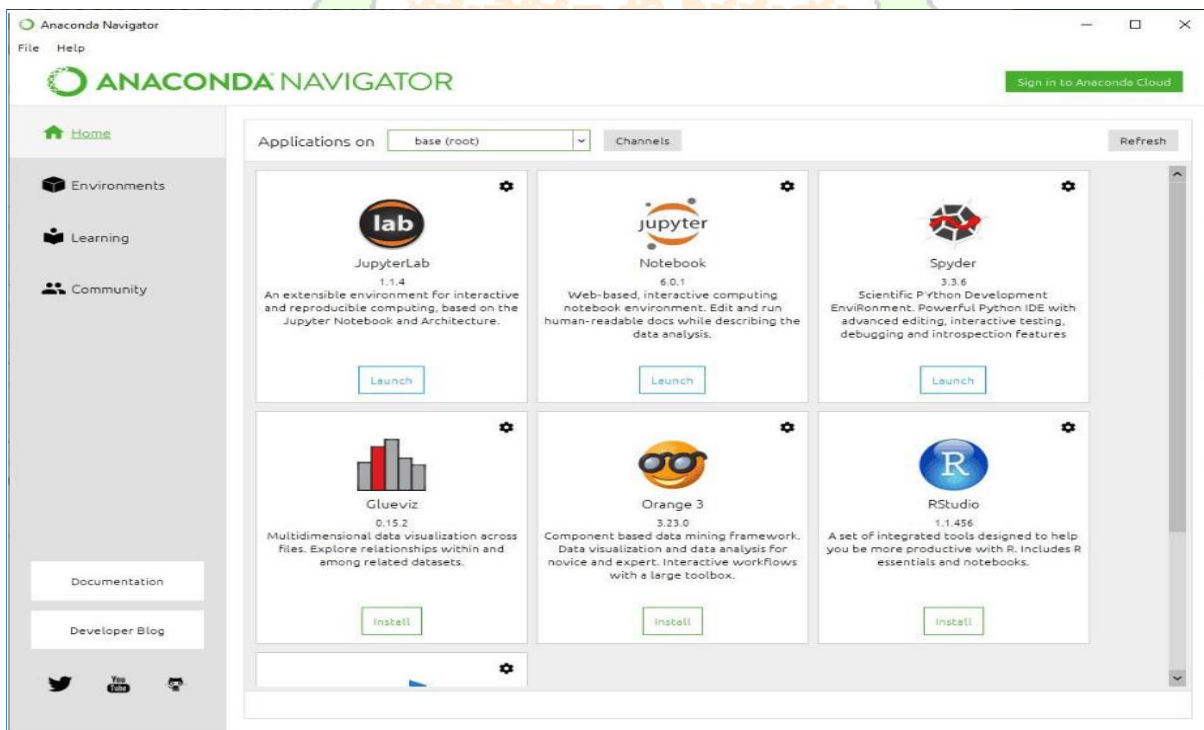
10. Access Anaconda Navigator

11. Once the installation process is done, Anaconda can be used to perform multiple operations. To begin using Anaconda, search for Anaconda Navigator from the Start Menu in Windows PC.



12. Explore Navigator & Features

13. You can use navigator to create new environments, install packages, and launch applications without using the command line.



SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

How to install pycharm:

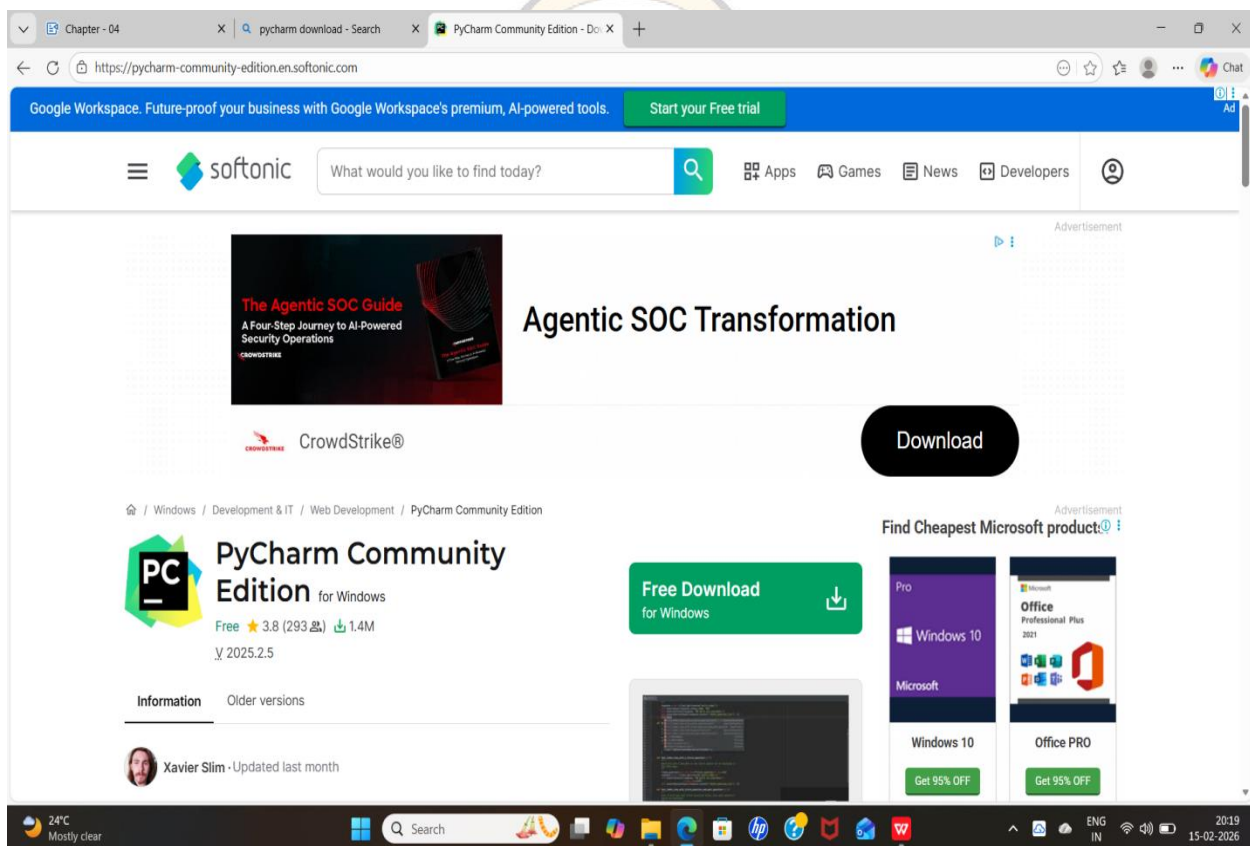
Installing PyCharm on Windows (Detailed Steps)

1. Go to the JetBrains PyCharm website

- Open any web browser (Chrome, Edge, Firefox, etc.).
- Type `pycharm.jetbrains.com` in the address bar and press Enter.

2. Click Download

- On the PyCharm homepage, you'll see a Download button.
- Click it to go to the download page.



3. Choose Community or Professional

You will see two versions of PyCharm:

PyCharm Community Edition (Free)

Choose this if:

SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

- You are a beginner or student
- You are learning basic Python
- You are doing school projects, scripting, or simple programs

What it includes:

- Python editor
- Code suggestions (auto-complete)
- Debugger
- Basic project tools

4. Download the Windows (.exe) installer

- Under your chosen version, click Download for Windows.
- A file ending in .exe will start downloading.
- Wait for the download to complete.

HOW TO INSTALL THE PACKAGES :

To install the packages , open pycharm

Step-1: click on Terminal .

Step-2: Now, Run the package command one by one and they will start installing in the interpreter

Python packages:

Open anaconda prompt as administrator

Type “pip install numpy” and click enter.

Type “pip install pandas” and click enter.

Type “pip install scikit-learn” and click enter.

Type ”pip install matplotlib” and click enter.

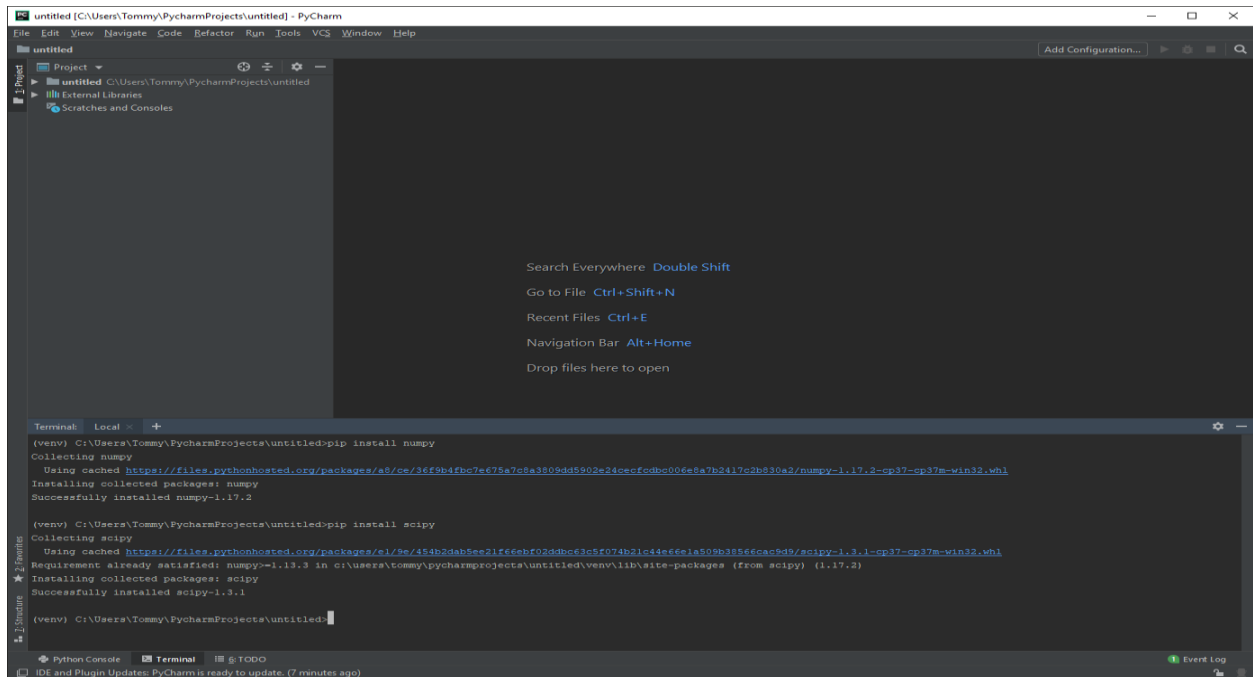
Type ”pip install scipy” and click enter.

SMART SORTING : TRANSFER LEARNING FOR IDENTIFYING ROTTEN FRUITS AND VEGETABLES

Type "pip install seaborn" and click enter.

Type "pip install tensorflow" and click enter.

Type "pip install Flask" and click enter.



```
untitled [C:\Users\Tommy\PycharmProjects\untitled] - PyCharm
File Edit View Navigate Code Refactor Run Tools VCS Window Help
untitled
Project: untitled
External Libraries
Scratches and Consoles

Search Everywhere Double Shift
Go to File Ctrl+Shift+N
Recent Files Ctrl+E
Navigation Bar Alt+Home
Drop files here to open

Terminal: Local +
(venv) C:\Users\Tommy\PycharmProjects\untitled>pip install numpy
Collecting numpy
  Using cached https://files.pythonhosted.org/packages/a8/ce/36f9b4f0c7e478a7c8a380b4d502e24cecfcd0c006e8a7b2417c2b30a2/numpy-1.17.2-cp37-cp37m-win32.whl
Installing collected packages: numpy
Successfully installed numpy-1.17.2

(venv) C:\Users\Tommy\PycharmProjects\untitled>pip install scipy
Collecting scipy
  Using cached https://files.pythonhosted.org/packages/e1/2e/454b2dab5ee21f6f6b2026b6c5f074b21c44a5e1a502b3856fcac8d9/scipy-1.3.1-cp37-cp37m-win32.whl
Requirement already satisfied: numpy>=1.13.3 in c:\users\tommy\pycharmprojects\untitled\venv\lib\site-packages (from scipy) (1.17.2)
Installing collected packages: scipy
Successfully installed scipy-1.3.1

(venv) C:\Users\Tommy\PycharmProjects\untitled>
```

