



# Installing Python

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# → Ways to Python installation ←

There are two main ways to install Python

Method 1: Using Anaconda (Recommended)

Method 2: Downloading python from the official site and installing Jupyter after

In this presentation, I will explain both methods of installation so that you can choose the one

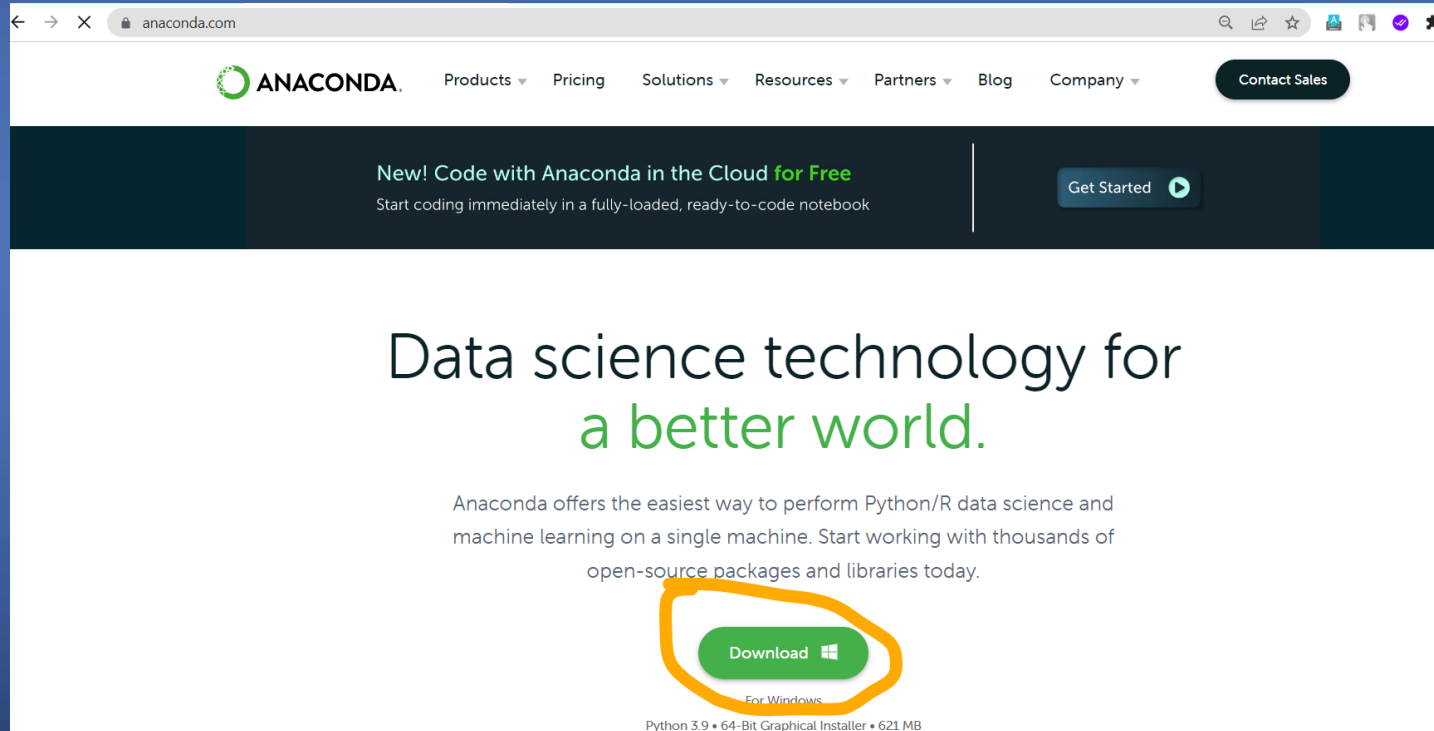
Two vertical white lines are positioned on the left and right sides of the slide. The left line has a downward-pointing arrow at its base, and the right line has an upward-pointing arrow at its top.

# Method 1

Using anaconda

# Step-1: Download

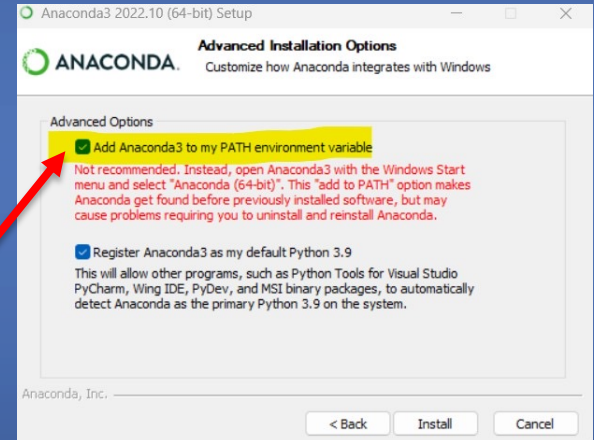
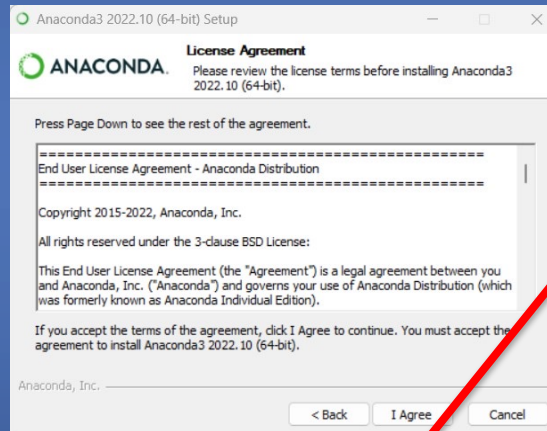
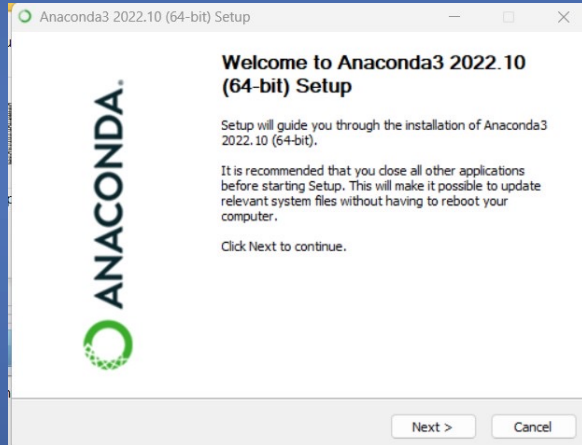
Navigate Official sites of anaconda website : <https://www.anaconda.com/>



The file size is about 621 MB, so it may take some time to download depending on your internet speed.

# Step-2 : Install

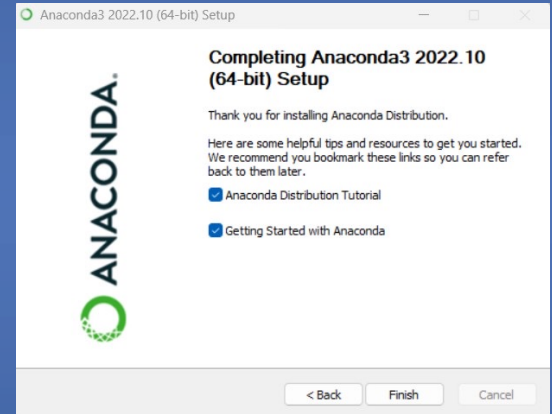
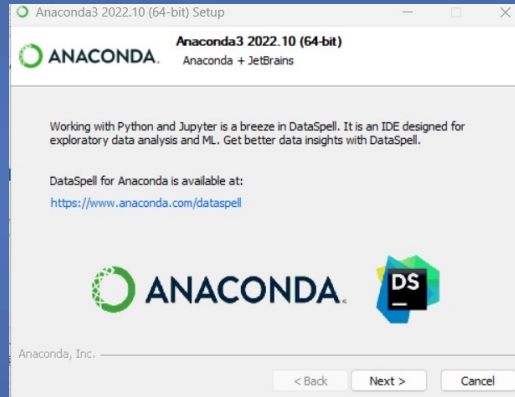
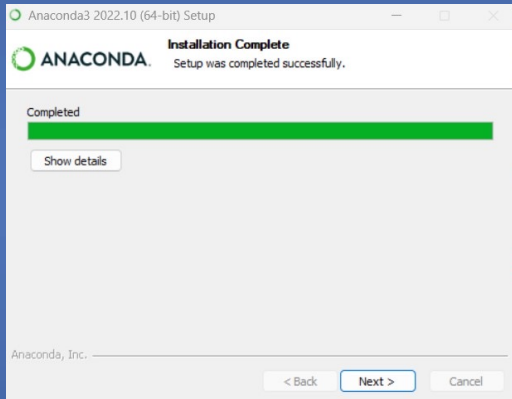
Install the downloaded



Important: Please check add anaconda3 to my PATH environment variable

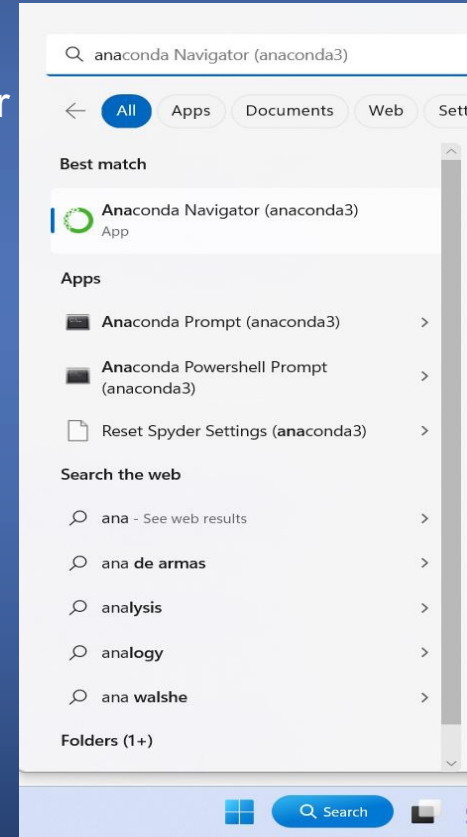
# Step-2 : Install

Install the downloaded



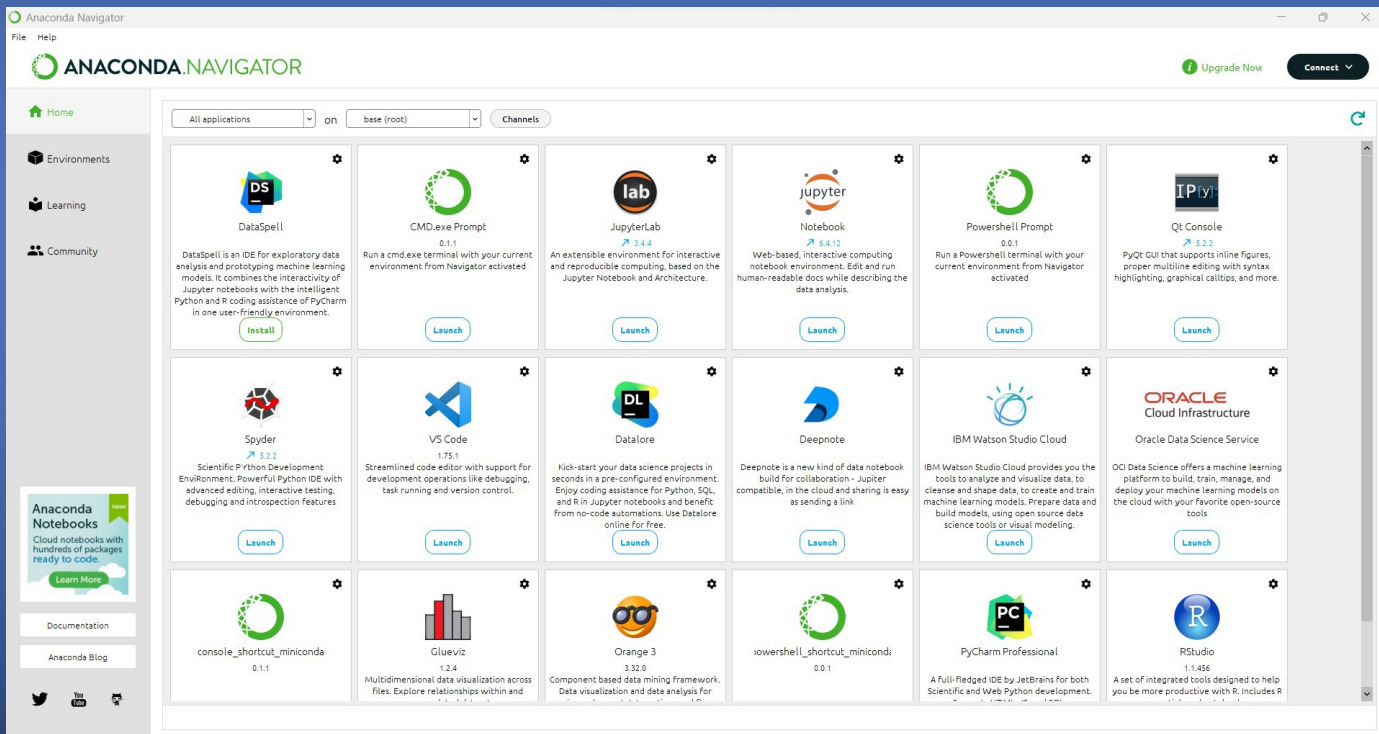
# Step-3: Verify Installation

- Go to the search and type 'Anaconda'. Anaconda Navigator should appear in the search results
- Click on it



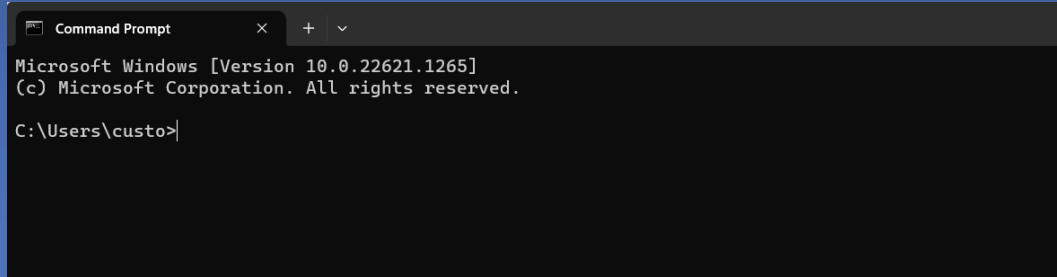
# Step-3: Verify Installation

The output should look like this





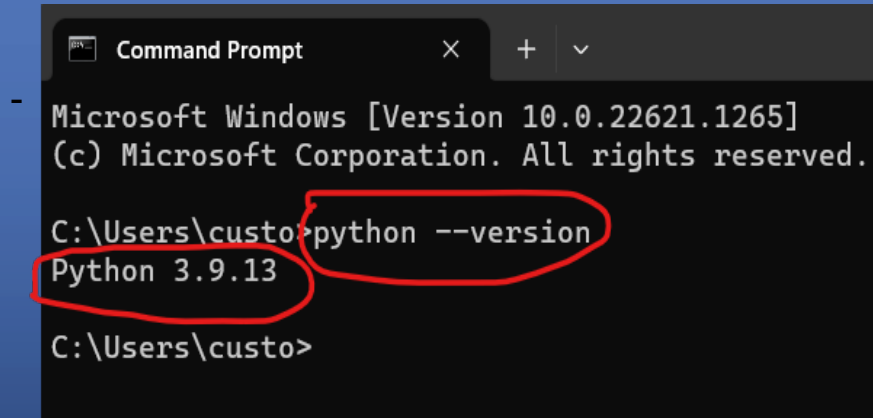
# Another method of verification



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Users\custo>
```

ing box will appear



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

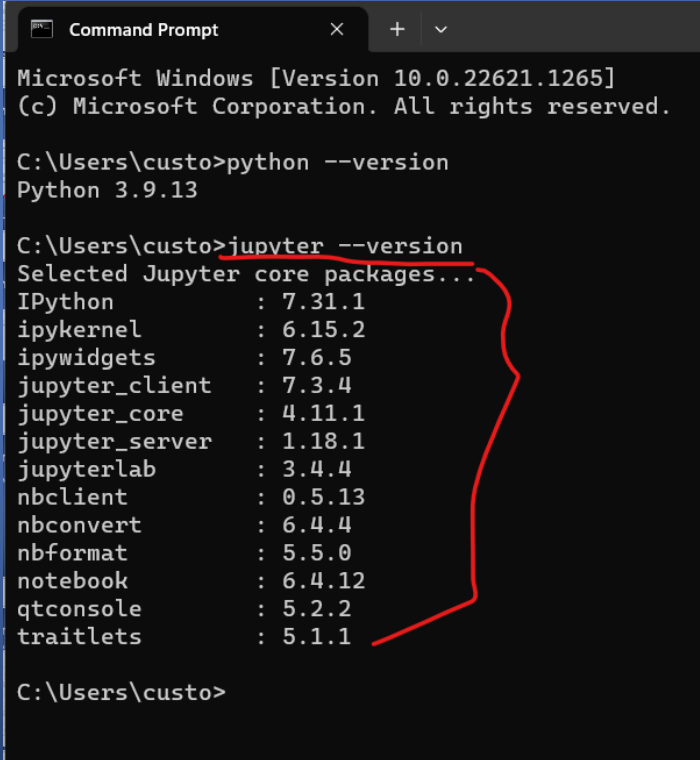
C:\Users\custo>python --version
Python 3.9.13

C:\Users\custo>
```

rsion

# Another method of verification

- Type 'jupyter --version', this will display python version to ensure the jupyter is install correctly



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Users\custo>python --version
Python 3.9.13

C:\Users\custo>jupyter --version
Selected Jupyter core packages...
IPython          : 7.31.1
ipykernel        : 6.15.2
ipywidgets       : 7.6.5
jupyter_client   : 7.3.4
jupyter_core     : 4.11.1
jupyter_server   : 1.18.1
jupyterlab       : 3.4.4
nbclient         : 0.5.13
nbconvert        : 6.4.4
nbformat         : 5.5.0
notebook         : 6.4.12
qtconsole        : 5.2.2
traitlets        : 5.1.1

C:\Users\custo>
```

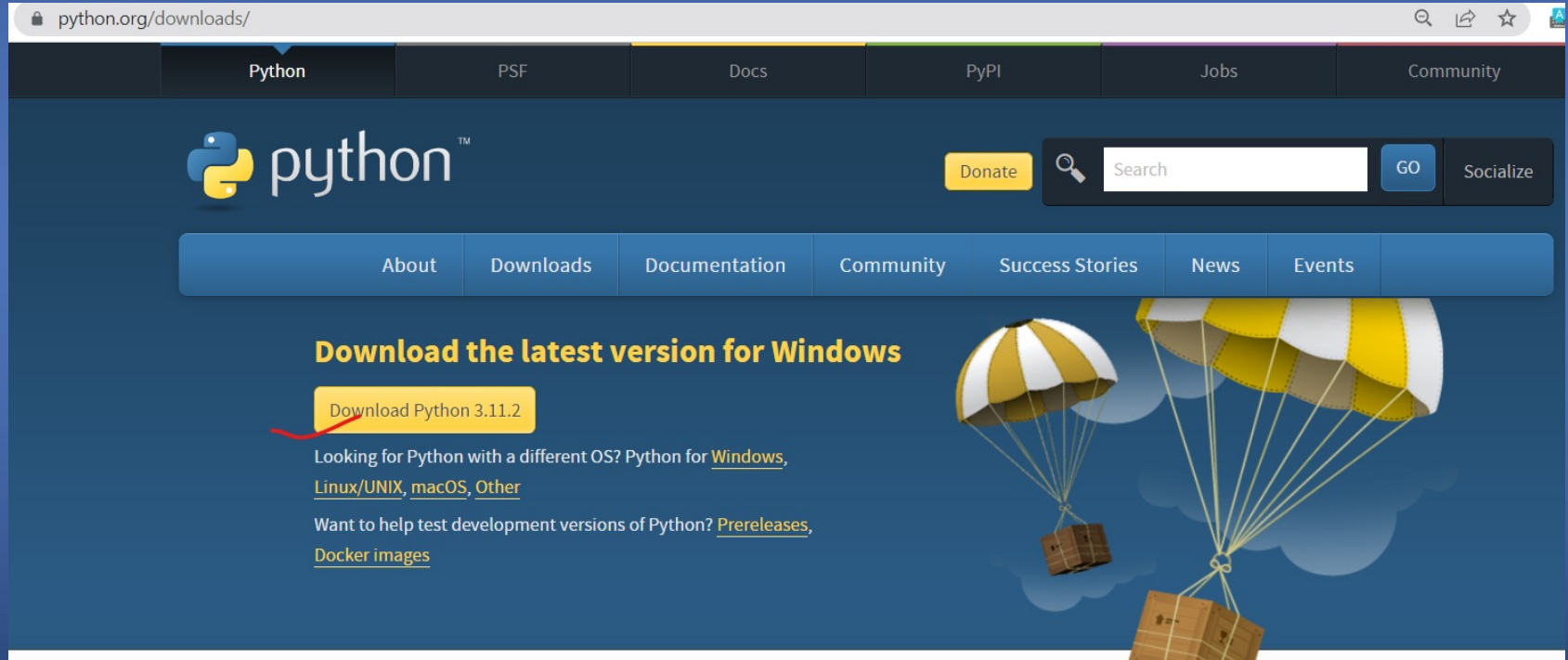
Two thin white vertical lines with arrowheads at the ends, one on the left pointing down and one on the right pointing up, framing the central text.

# Method 2

From Python official website

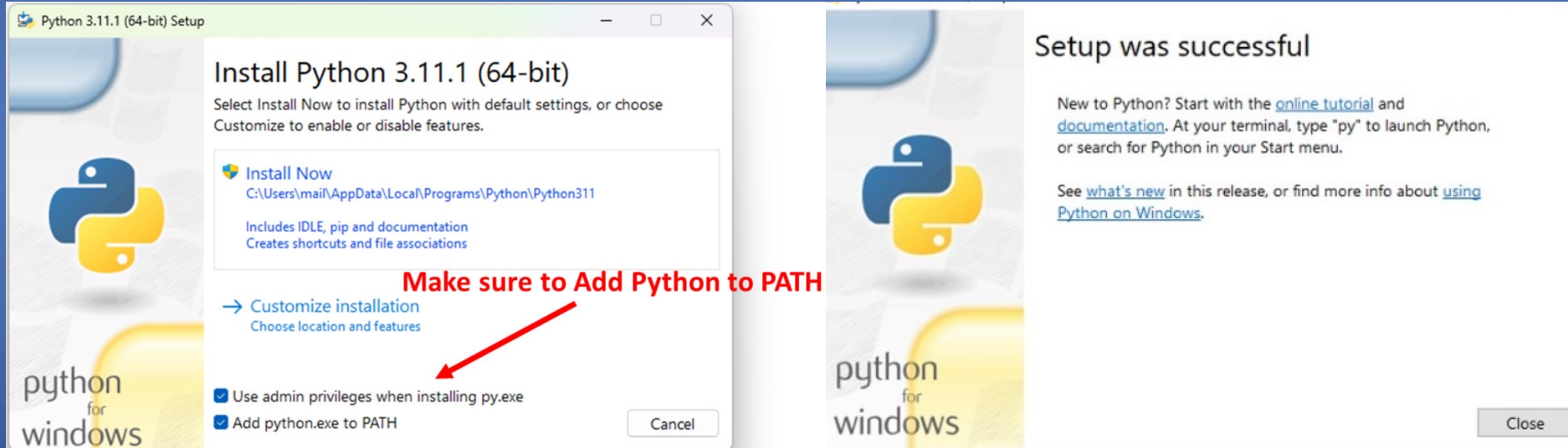
# Step-1: Download

Navigate Official sites of anaconda website : <https://www.python.org/downloads/>



# Step-2 : Install

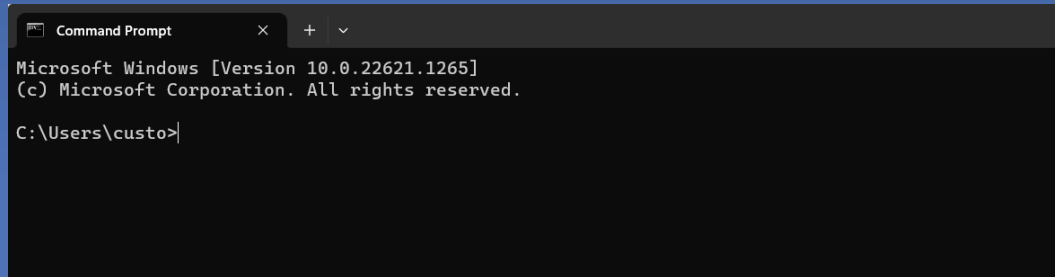
Install the downloaded



Important: Please check add python.exe to PATH

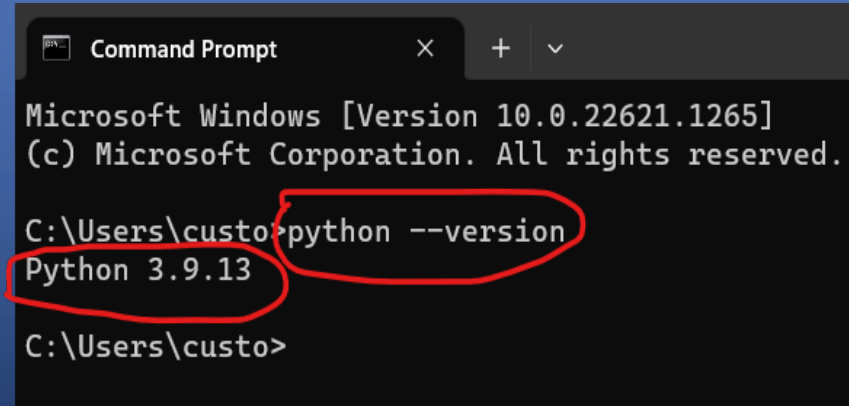
# Verification

- Go to the search and type 'cmd'. And click enter the following box will appear



A screenshot of a Windows Command Prompt window. The title bar shows 'Command Prompt' with standard window controls. The text inside reads: 'Microsoft Windows [Version 10.0.22621.1265] (c) Microsoft Corporation. All rights reserved. C:\Users\custo>'. The prompt is at the end of the line.

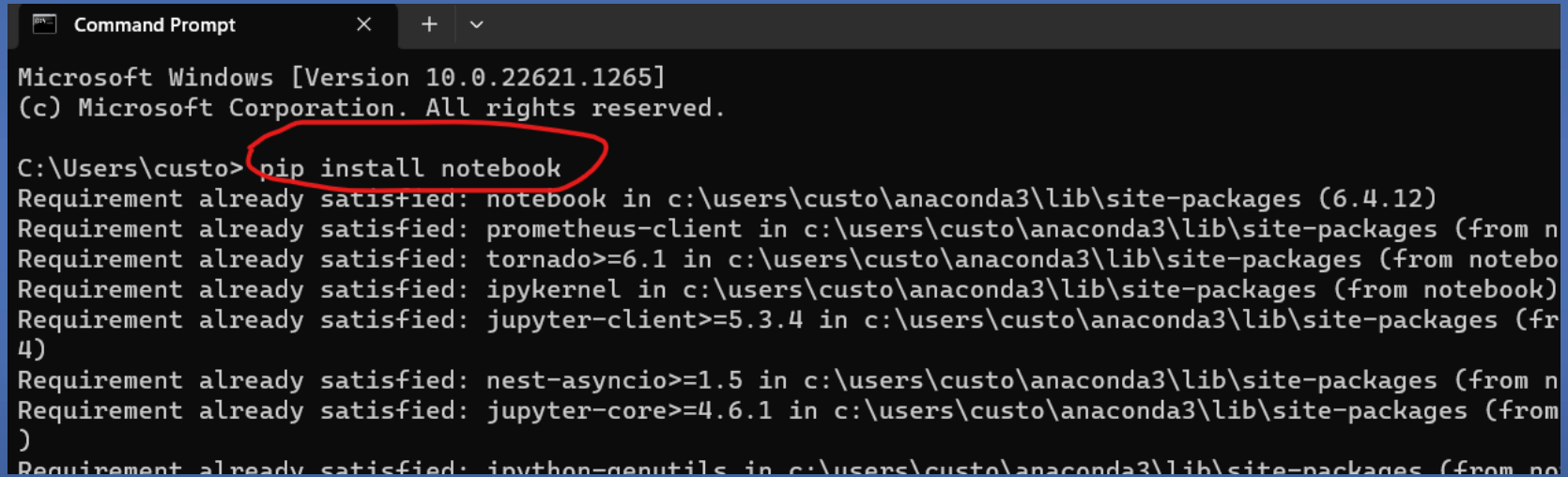
- Type 'python --version', this will display python version



A screenshot of a Windows Command Prompt window. The title bar shows 'Command Prompt' with standard window controls. The text inside reads: 'Microsoft Windows [Version 10.0.22621.1265] (c) Microsoft Corporation. All rights reserved. C:\Users\custo>python --version Python 3.9.13 C:\Users\custo>'. The command 'python --version' and its output 'Python 3.9.13' are circled in red.

# Install jupyter

- Type '*pip install notebook*', in CMD



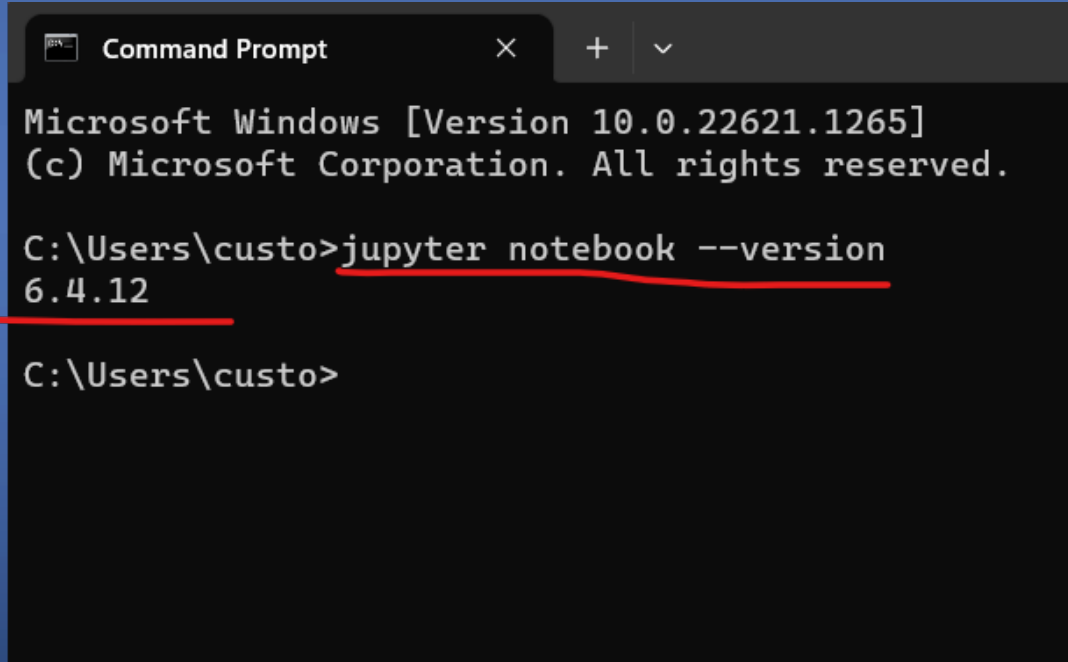
```
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Users\custo> pip install notebook
Requirement already satisfied: notebook in c:\users\custo\anaconda3\lib\site-packages (6.4.12)
Requirement already satisfied: prometheus-client in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: tornado>=6.1 in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: ipykernel in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: jupyter-client>=5.3.4 in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: nest-asyncio>=1.5 in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: jupyter-core>=4.6.1 in c:\users\custo\anaconda3\lib\site-packages (from notebook)
Requirement already satisfied: ipython-genutils in c:\users\custo\anaconda3\lib\site-packages (from notebook)
```

It may take some time to install depending on your internet speed

# Another method of verification

- Type in CMD '*jupyter notebook --version*', this will display python version to ensure the jupyter notebook is install correctly



```
Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
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C:\Users\custo>jupyter notebook --version
6.4.12

C:\Users\custo>
```



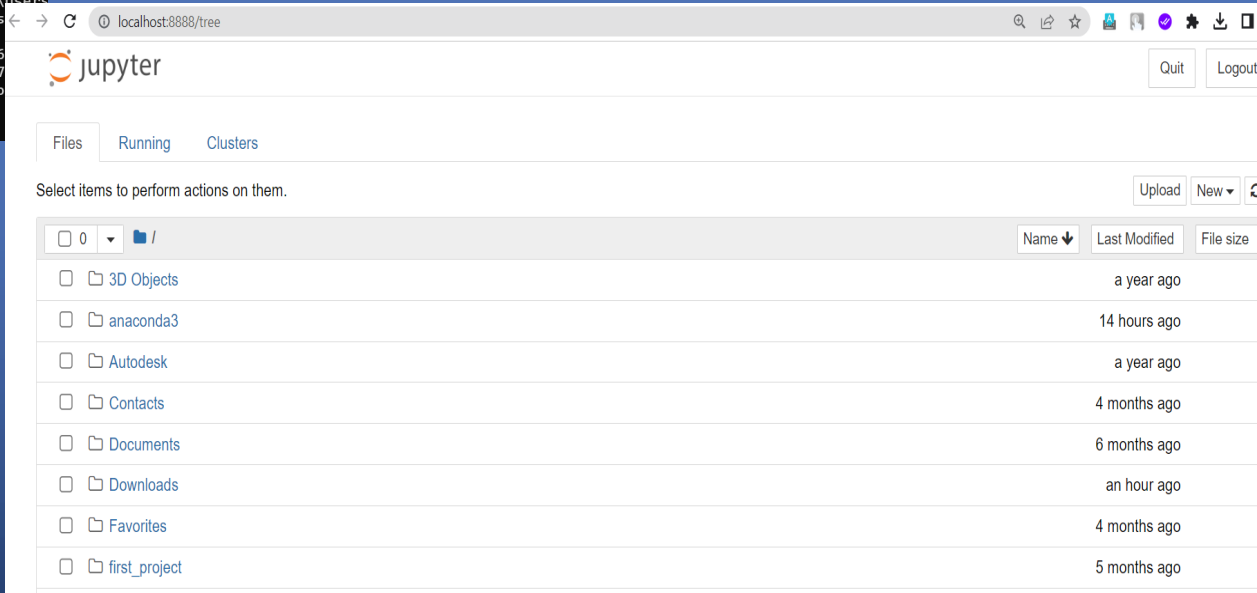
# To Open

- Type in CMD 'jupyter notebook', this will open jupyter notebook in browser

```
Command Prompt - jupyter r x + v
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.

C:\Users\custos>jupyter notebook
[I 2023-02-25 09:19:04.679 LabApp] JupyterLab extension loaded from C:\Users\cu
b
[I 2023-02-25 09:19:04.679 LabApp] JupyterLab application directory is C:\Users
[I 09:19:04.695 NotebookApp] Serving notebooks from local directory: C:\Us
[I 09:19:04.695 NotebookApp] Jupyter Notebook 6.4.12 is running at:
[I 09:19:04.695 NotebookApp] http://localhost:8888/?token=84a13456a827f516
[I 09:19:04.695 NotebookApp] or http://127.0.0.1:8888/?token=84a13456a827
[I 09:19:04.695 NotebookApp] Use Control-C to stop this server and shut do
[C 09:19:04.726 NotebookApp]
```

You will see this interface in browser





# Done!

We will revise it during the first session.