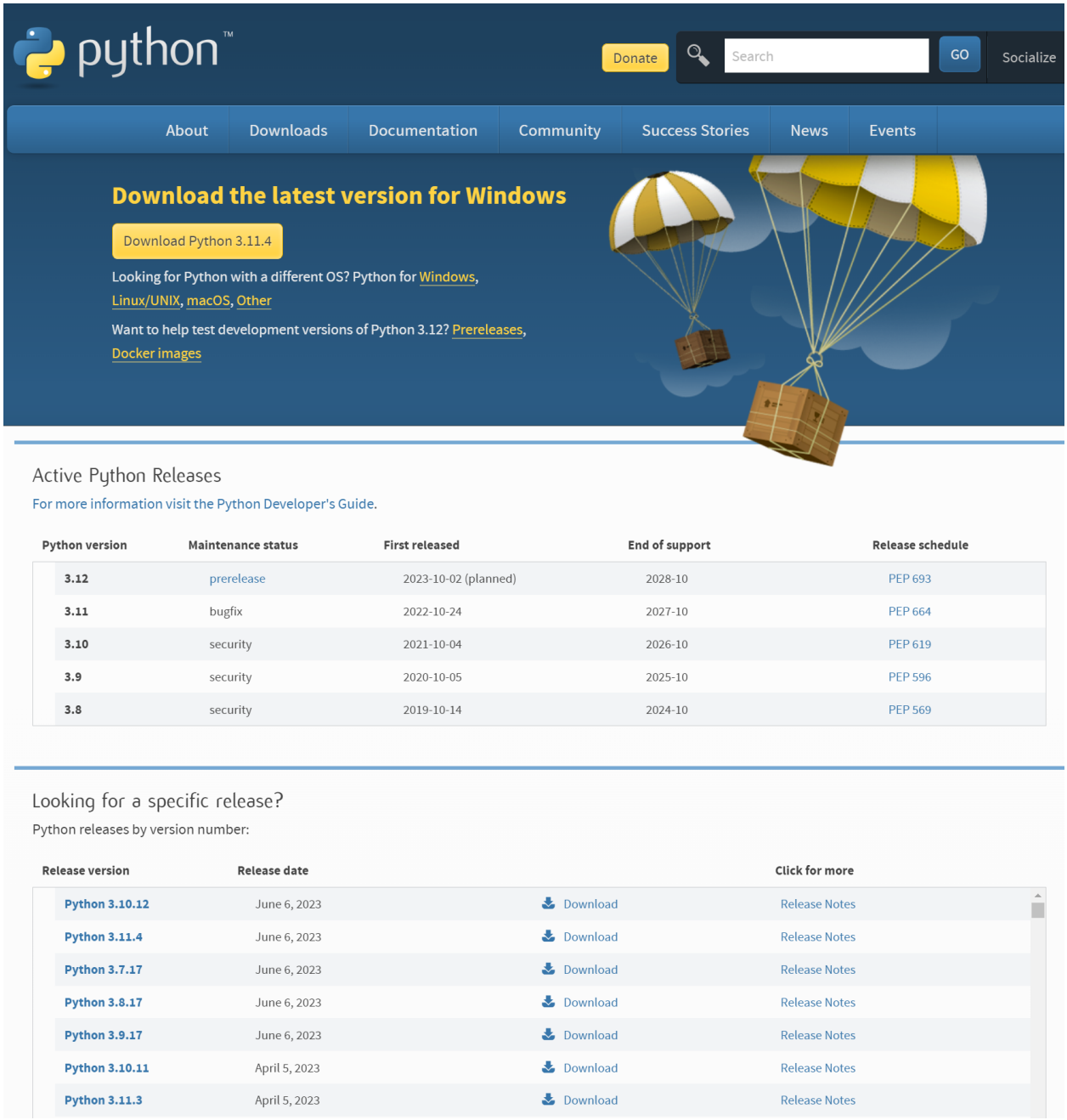
How to install Python on Windows?

To download Python on your system, you can use the following steps:

- Visit the official download page for Python on the Windows operating system- LINK
- Locate a reliable version of Python 3, preferably version 3.12.0(latest)
- Choose the correct link for your device from the options provided: either Windows installer (64-bit) or Windows installer (32-bit) and proceed to download the executable file.



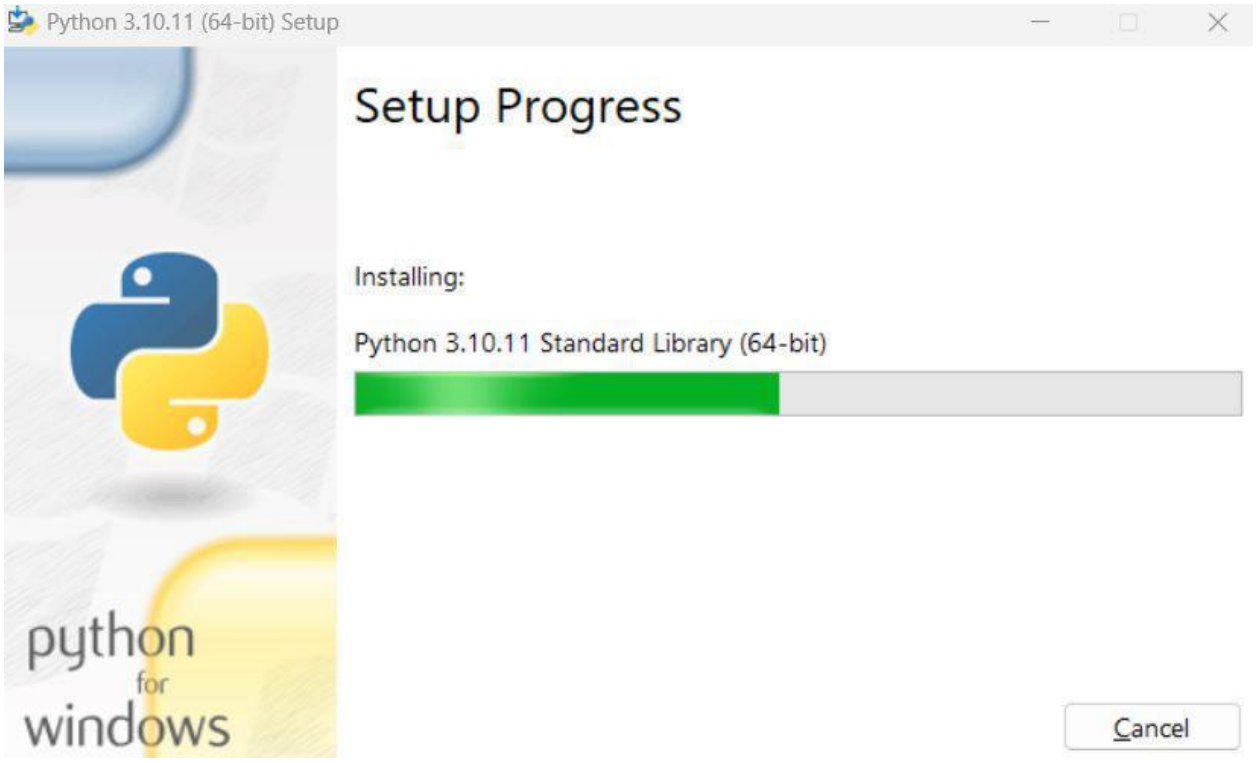
Running the Executable Installer

- Once you have downloaded the installer, open the .exe file, such as python-3.10.11-amd64.exe, by double-clicking it to launch the Python installer.

- Choose the option to Install the launcher for all users by checking the corresponding checkbox, so that all users of the computer can access the Python launcher application.
- Enable users to run Python from the command line by checking the Add python.exe to PATH checkbox.

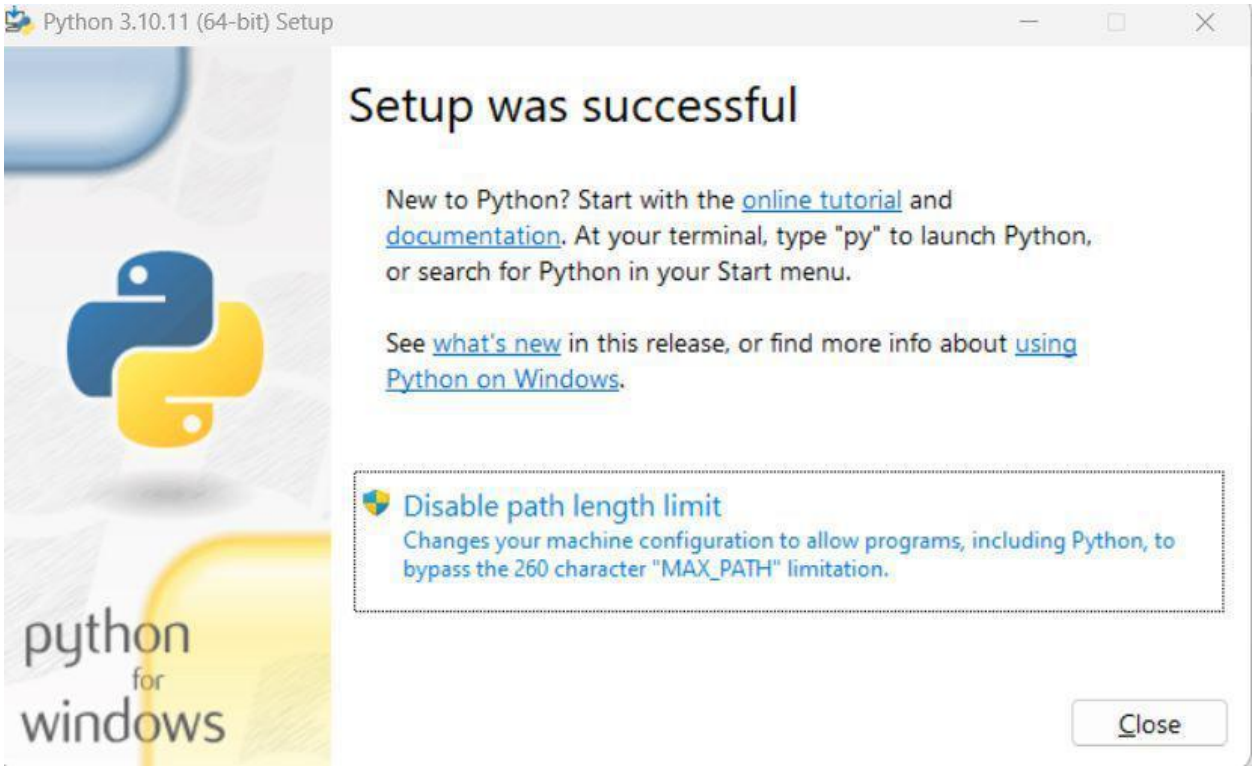
Setup Progress

After Clicking the Install Now Button the setup will start installing Python on your Windows system. You will see a window like this.



Final Installer Window

After completing the setup. Python will be installed on your Windows system. You will see a successful message.



Verify the Installation

Close the window after successful installation. You can check if the installation of Python was successful by using either the command line or the Integrated Development Environment (IDLE), which you may have installed.

To access the command line, click on the Start menu and type “cmd” in the search bar. Then click on Command Prompt.

```
python --version
```

```
C:\Users\ashub>python --version
Python 3.10.11
```

How to install Jupyter Notebook on Windows?

Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text. Uses include data cleaning and transformation, numerical simulation, statistical modeling, data visualization, machine learning, and much more.

Jupyter has support for over 40 different programming languages and Python is one of them. Python is a requirement (Python 3.3 or greater, or Python 2.7) for installing the Jupyter Notebook itself.

Jupyter Notebook can be installed by using either of the two ways described below:

1. Using Anaconda:

Install Python and Jupyter using the Anaconda Distribution, which includes Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science. To install Anaconda, go through How to install Anaconda on windows? and follow the instructions provided.

2. Using PIP:

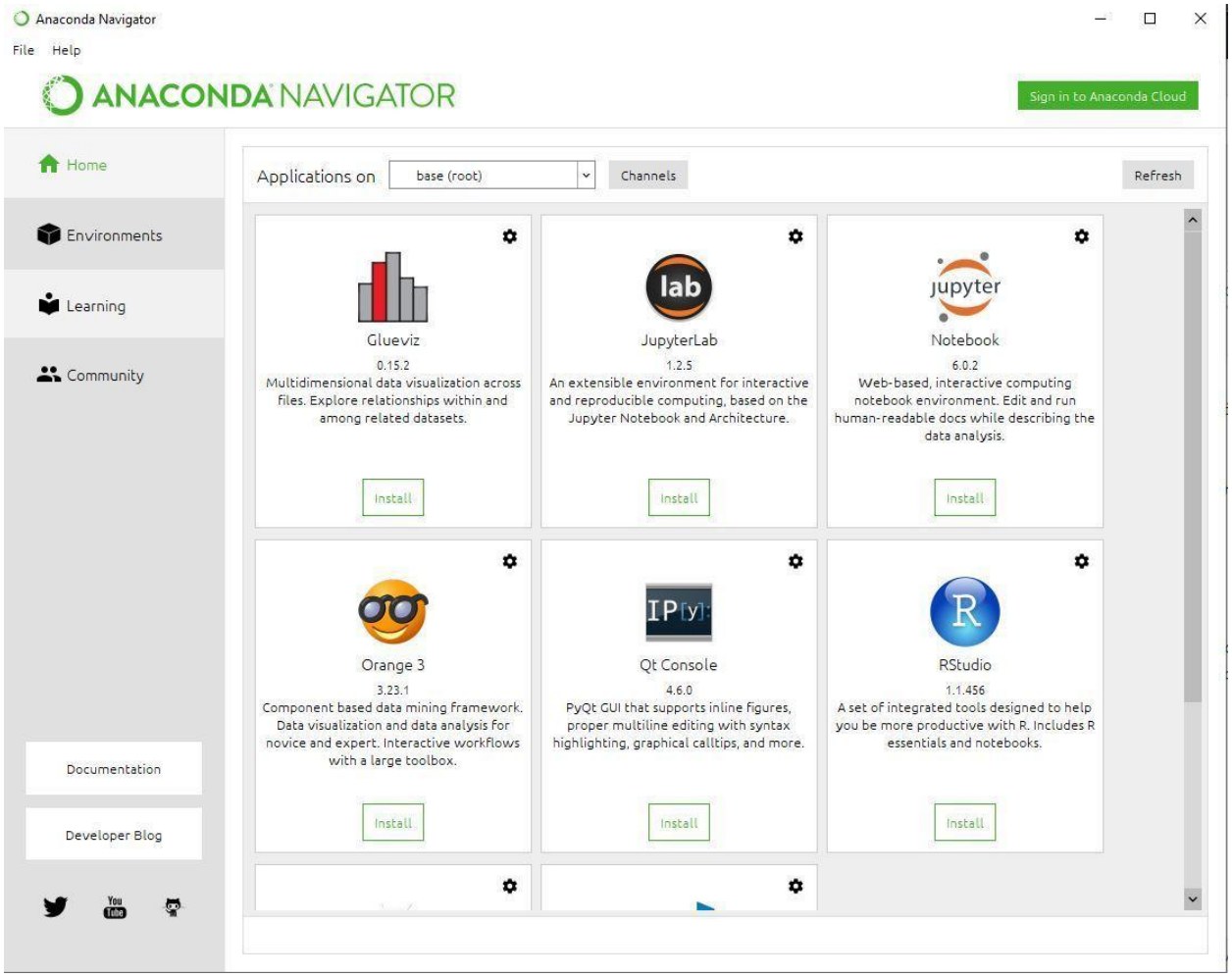
Install Jupyter using the PIP package manager used to install and manage software packages/libraries written in Python. To install pip, go through How to install PIP on Windows? and follow the instructions provided.

Installing Jupyter Notebook using Anaconda:

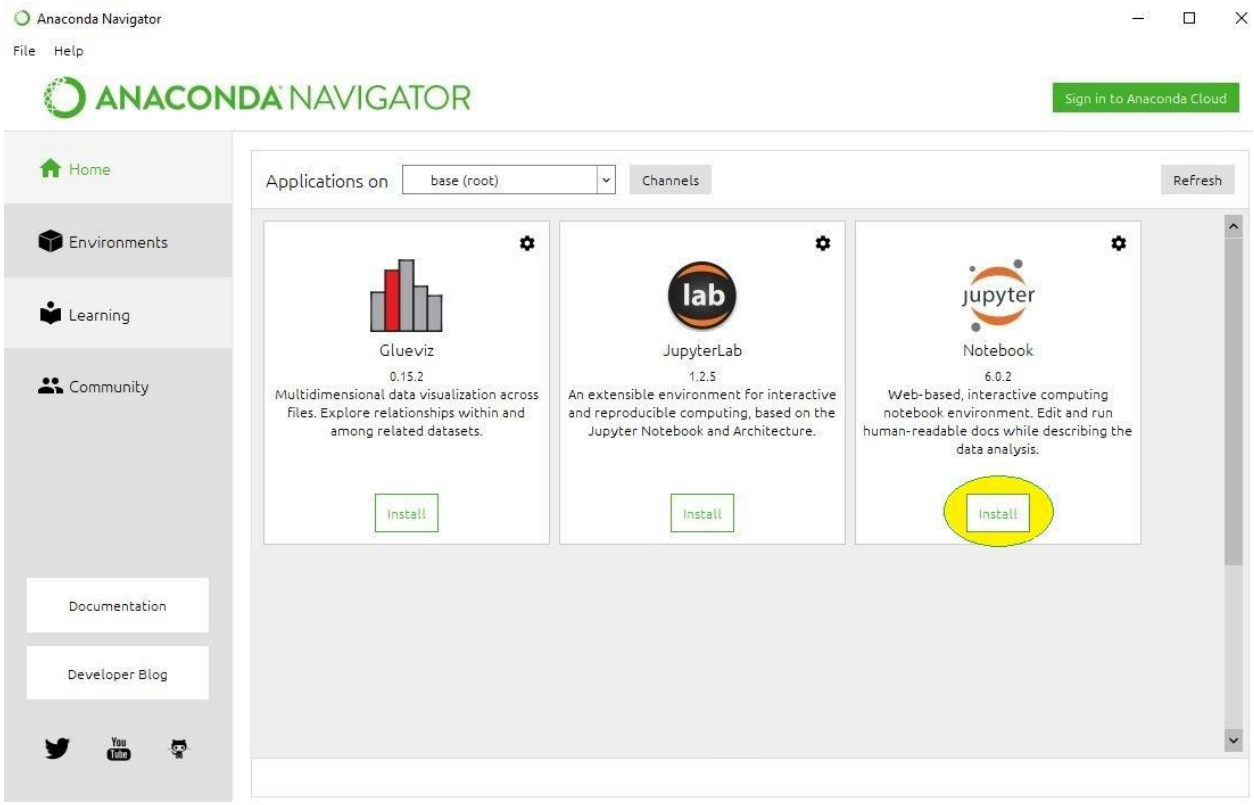
Anaconda is an open-source software that contains Jupyter, Spyder, etc. that is used for large data processing, data analytics, heavy scientific computing. Anaconda works for R and python programming language. Spyder (sub-application of Anaconda) is used for python. OpenCV for python will work in Spyder. Package versions are managed by the package management system called conda.

To install Jupyter using Anaconda, just go through the following instructions:

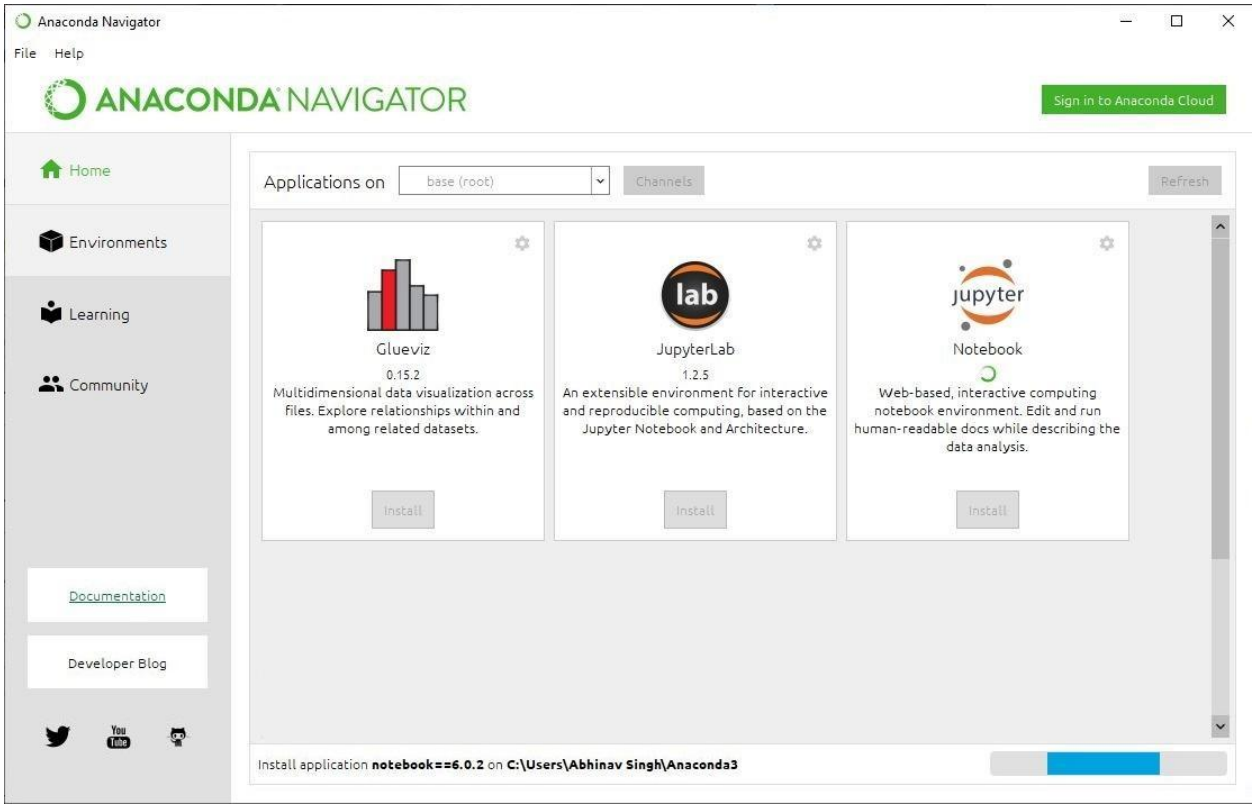
- **Launch Anaconda Navigator:**



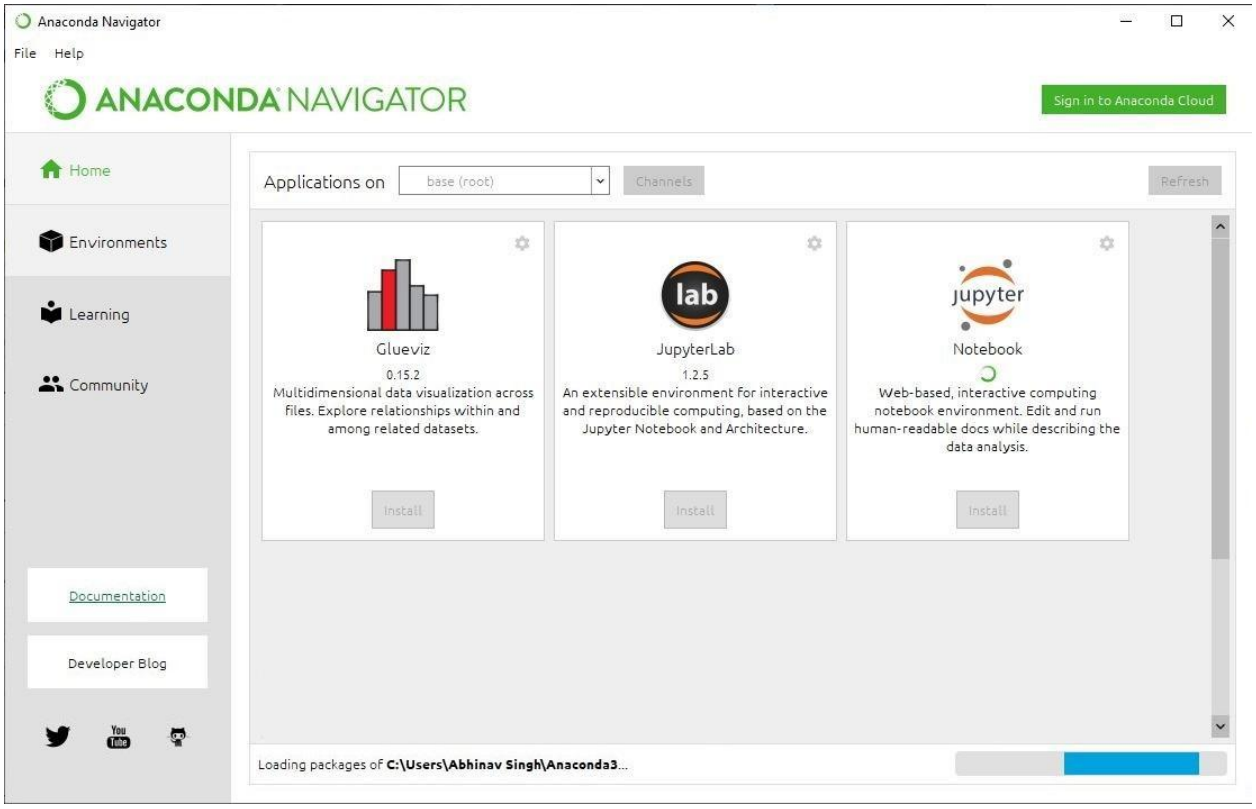
- **Click on the Install Jupyter Notebook Button:**



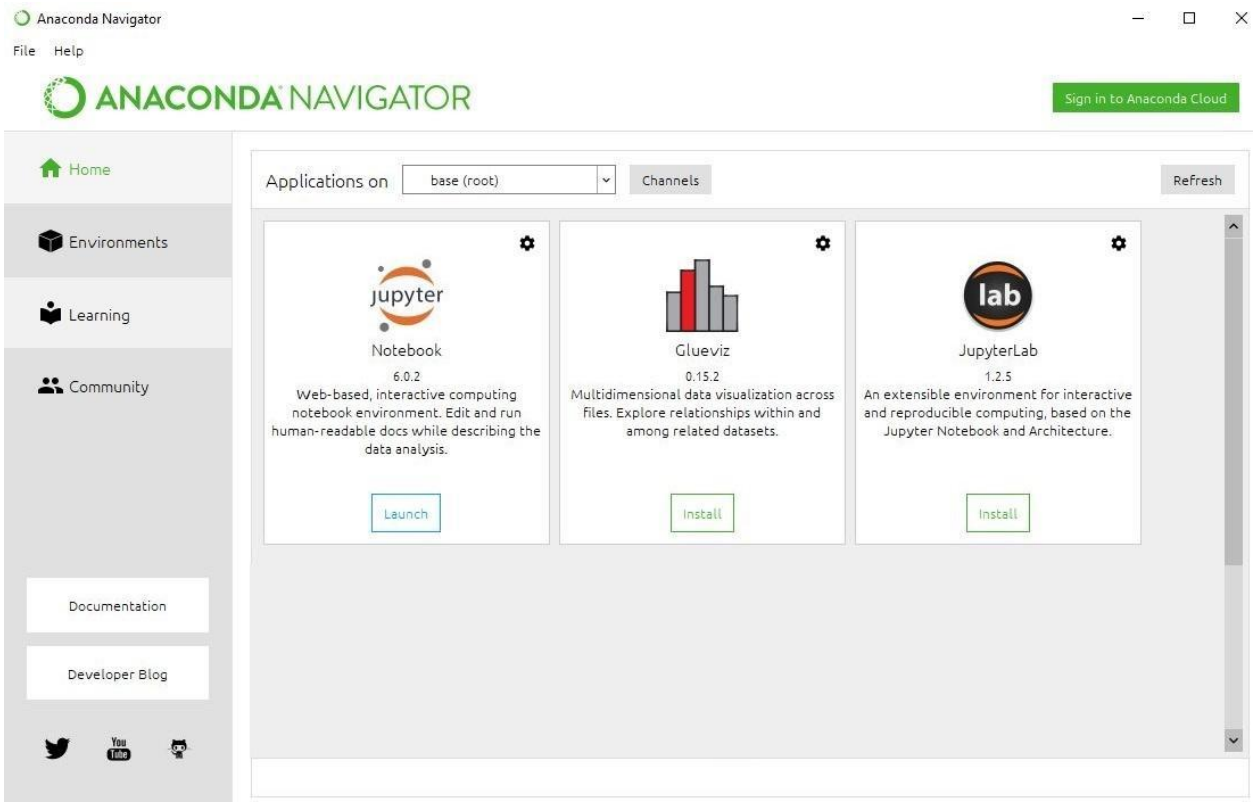
- **Beginning the Installation:**



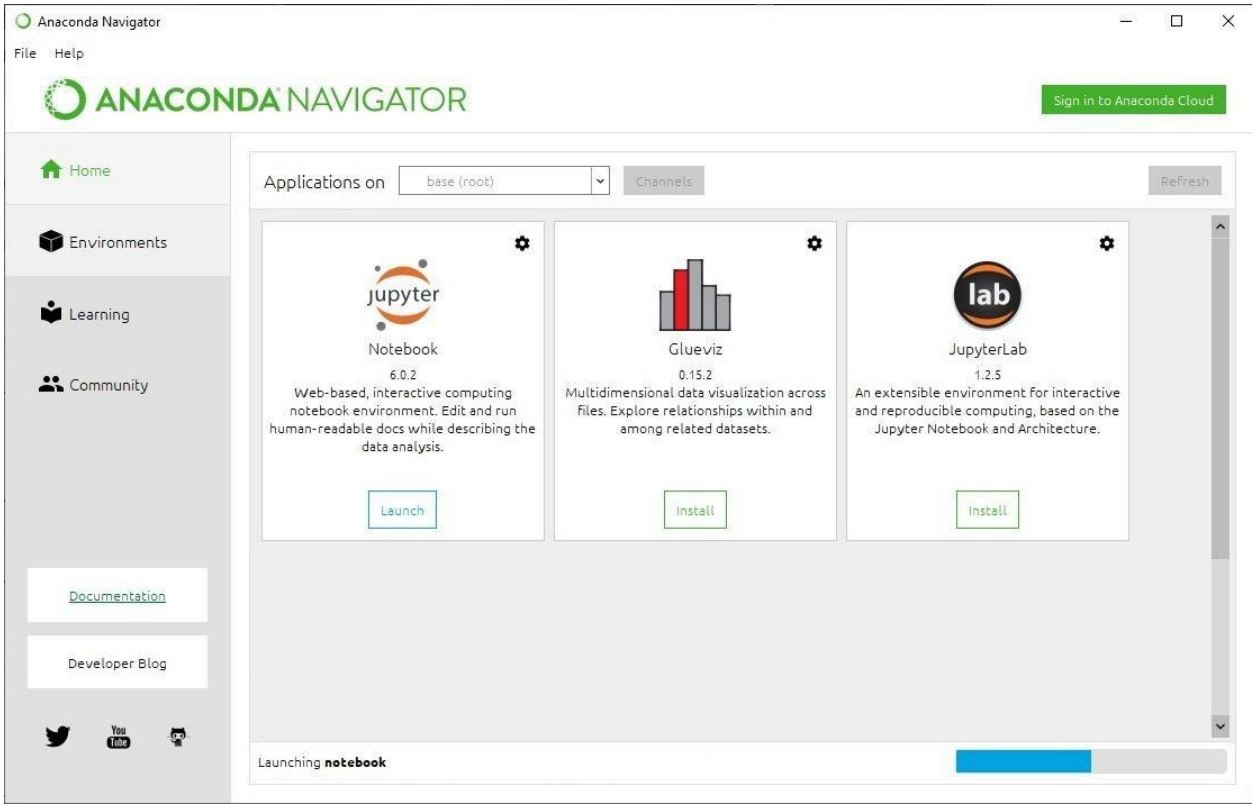
- **Loading Packages:**

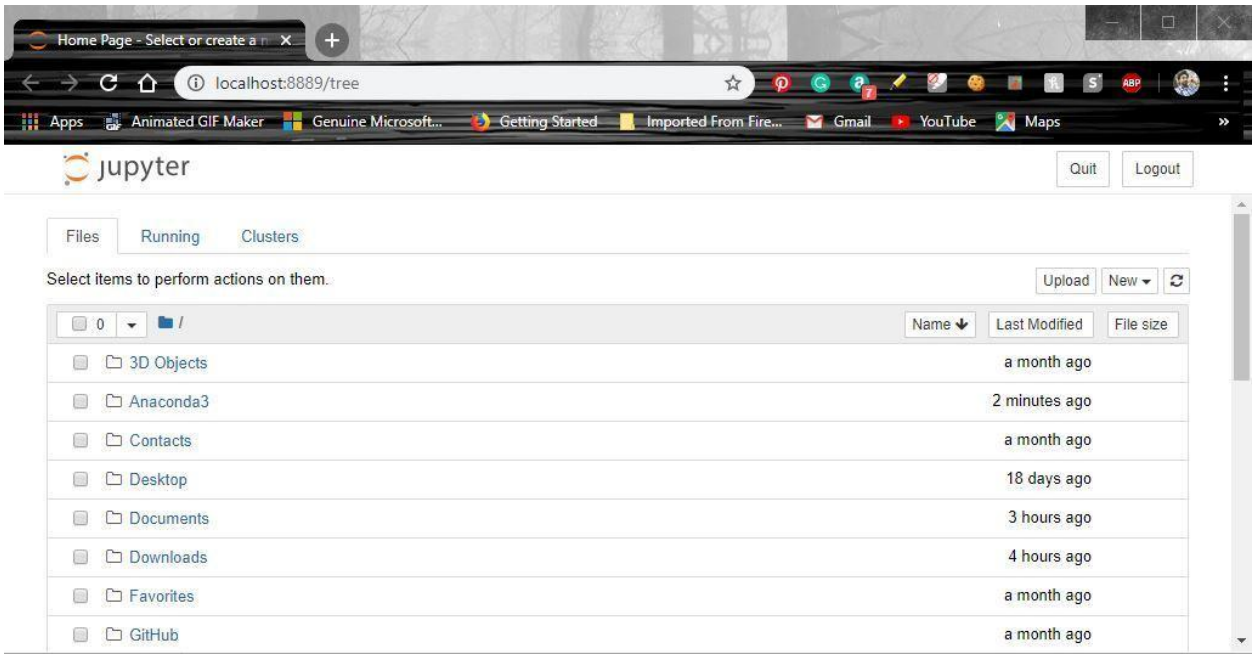


- **Finished Installation:**



- **Launching Jupyter:**


Anaconda Navigator
File Help
ANACONDA NAVIGATOR
Sign in to Anaconda Cloud
Home
Environments
Learning
Community
Documentation
Developer Blog
Applications on
base (root)
Channels
Refresh
Notebook
6.0.2
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch
Glueviz
0.15.2
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Install
JupyterLab
1.2.5
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Install
Launching notebook

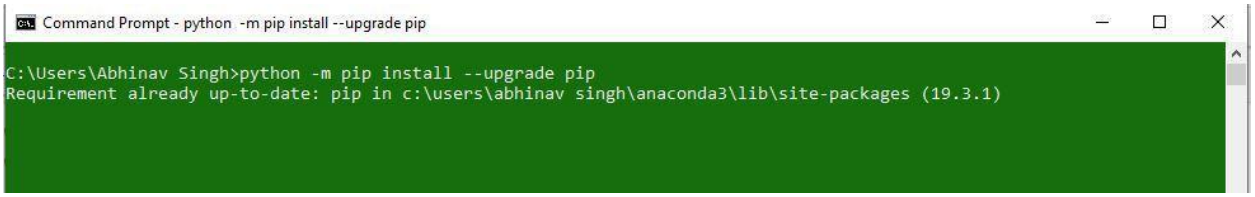

Home Page - Select or create a
localhost:8889/tree
Apps
Animated GIF Maker
Genuine Microsoft...
Getting Started
Imported From Fire...
Gmail
YouTube
Maps
jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
Name
Last Modified
File size
3D Objects
a month ago
Anaconda3
2 minutes ago
Contacts
a month ago
Desktop
18 days ago
Documents
3 hours ago
Downloads
4 hours ago
Favorites
a month ago
GitHub
a month ago

Installing Jupyter Notebook using pip:

PIP is a package management system used to install and manage software packages/libraries written in Python. These files are stored in a large "on-line repository" termed as Python Package Index (PyPI).
pip uses PyPI as the default source for packages and their dependencies.

To install Jupyter using pip, we need to first check if pip is updated in our system. Use the following command to update pip:

```
python -m pip install --upgrade pip
```

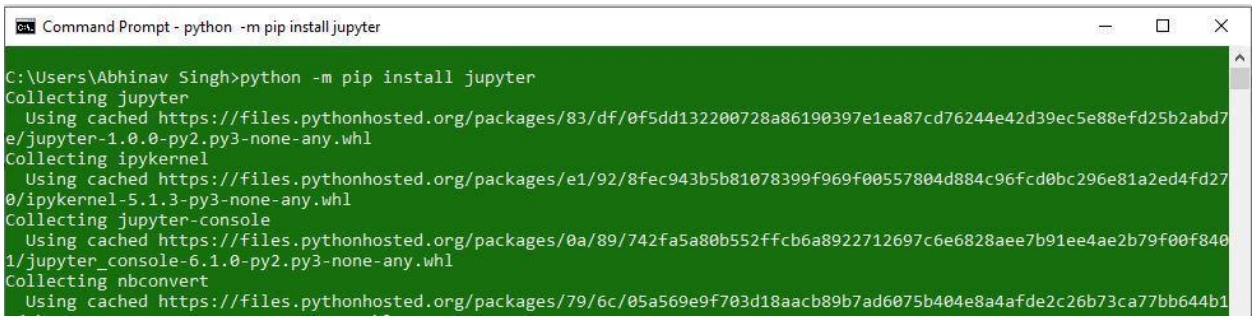


After updating the pip version, follow the instructions provided below to install Jupyter:

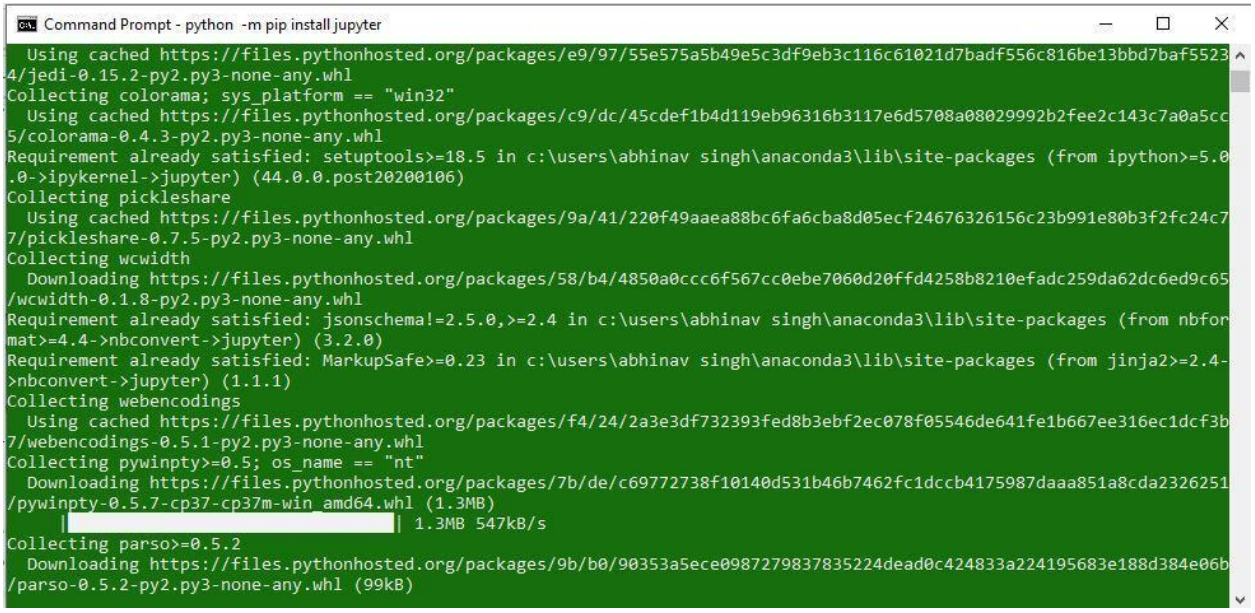
- **Command to install Jupyter:**

```
python -m pip install jupyter
```

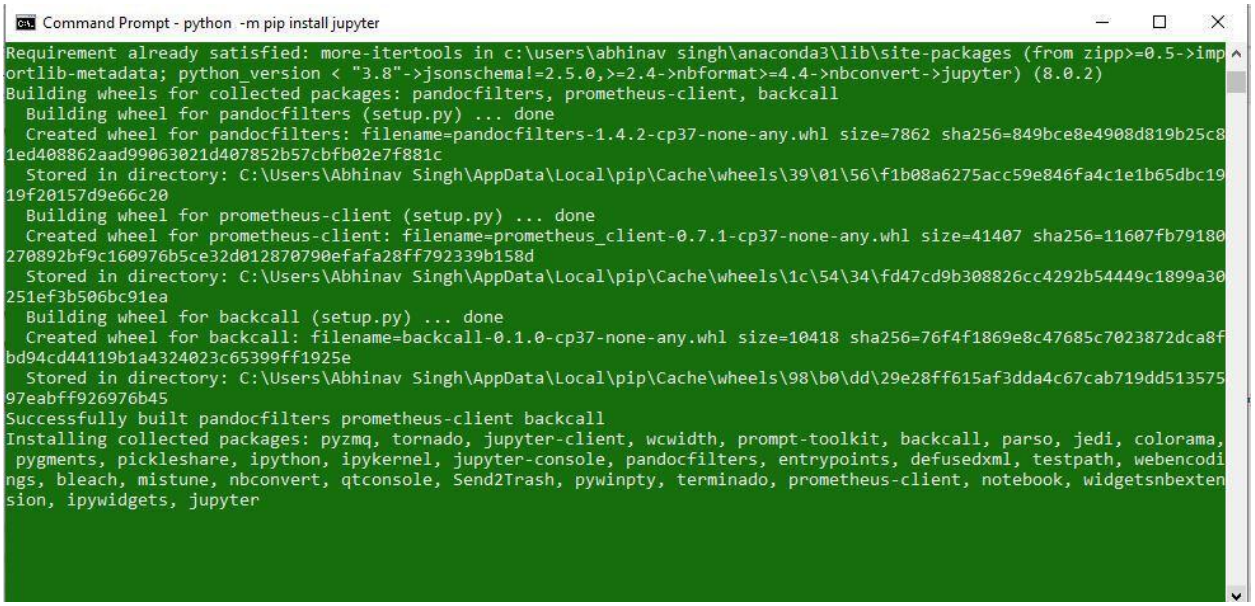
- **Beginning Installation:**



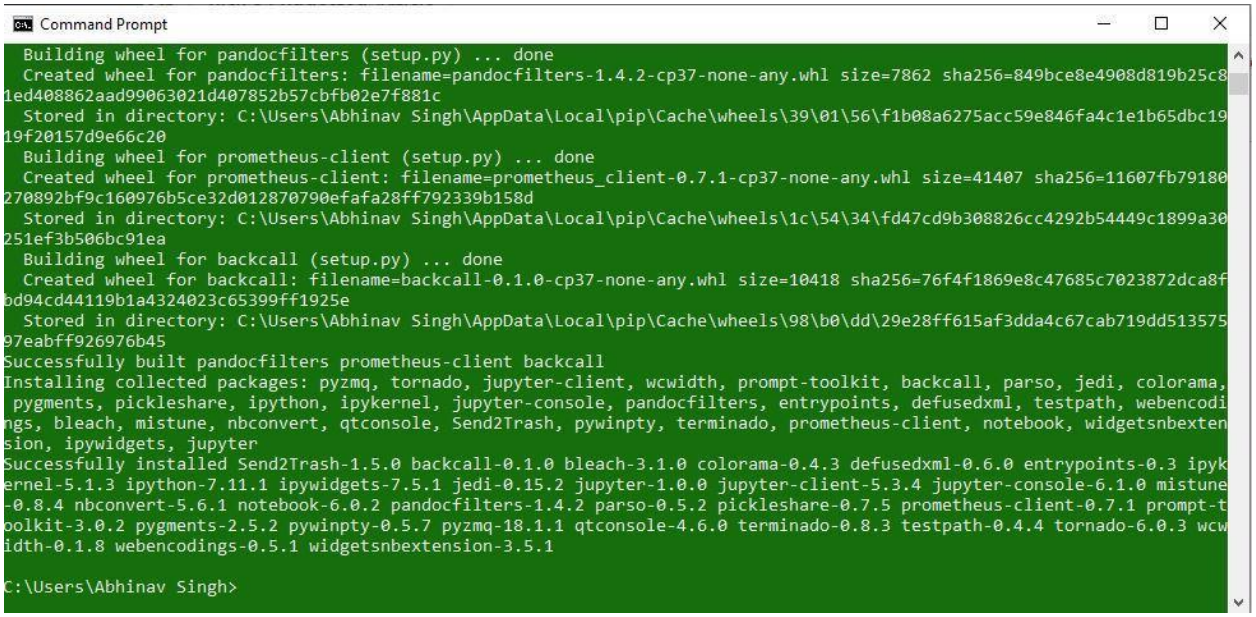
- **Downloading Files and Data:**



- **Installing Packages:**



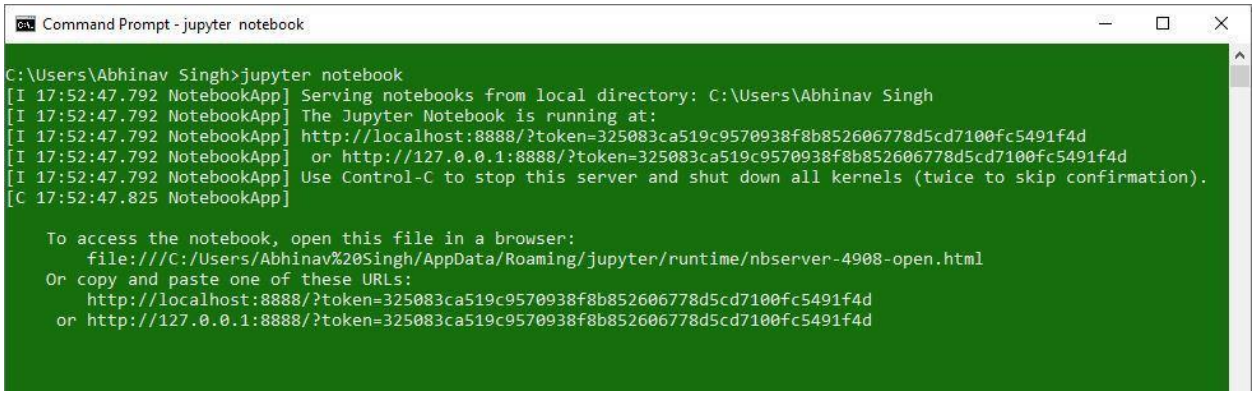
- **Finished Installation:**

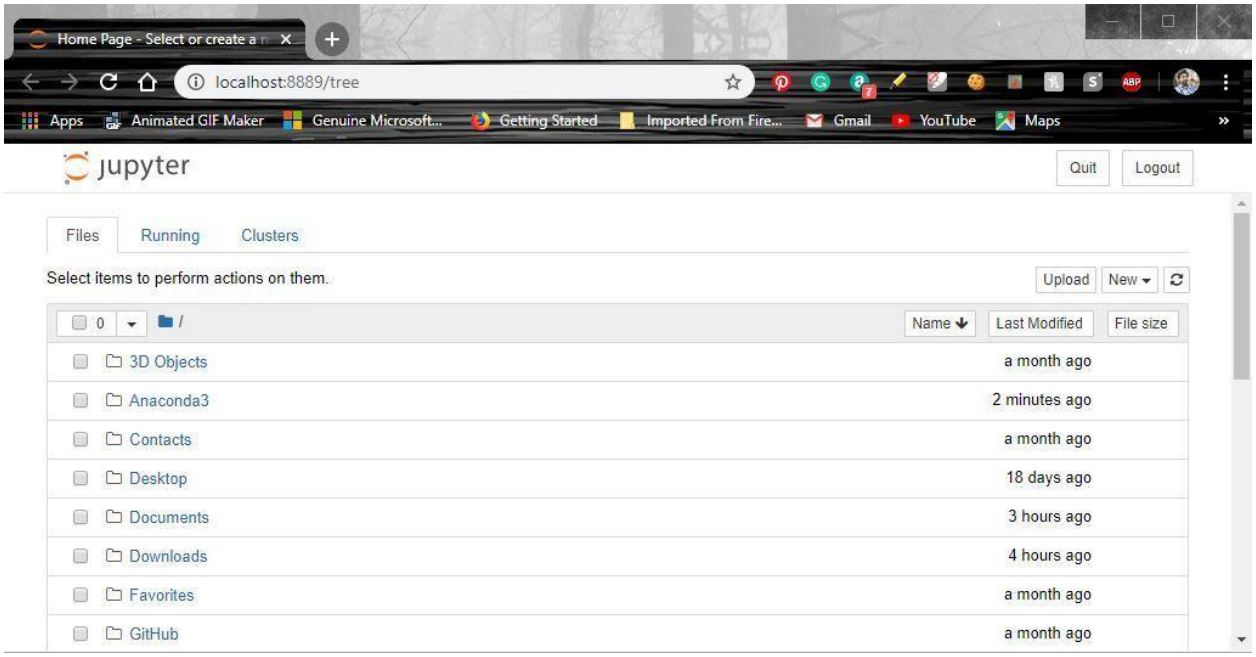


Launching Jupyter:

Use the following command to launch Jupyter using command-line:

```
jupyter notebook
```





How to install Python & Jupyter Notebook on Mac?

- **Install Python -** https://www.dataquest.io/blog/installing-python-on-mac/
- **Install Jupyter Notebook -** https://medium.com/@vinitasilaparasetty/how-to-install-jupyter-notebookon-mac-f2daca0aa7b2