

Environment Setup

Installing Anaconda with Python

Step by Step Guide

Prepared By: Engr.Tajummal Hussain

Introduction:

What is Anaconda Distributions?

Anaconda is a freemium open source distribution of the Python and R programming languages for large-scale data processing, predictive analytics, and scientific computing, that aims to simplify package management and deployment. Package versions are managed by the package management system conda. With over 4.5 million users, the open source Anaconda Distribution is the easiest way to do Python data science and machine learning. It includes hundreds of popular data science packages and the conda package and virtual environment manager for Windows, Linux, and MacOS. Conda makes it quick and easy to install, run, and upgrade complex data science and machine learning environments like scikit-learn, Tensor Flow, and SciPy. What is Anaconda Distribution

How it is different from Python Distribution?

Anaconda Data Science Libraries

Over 1,000 Anaconda-curated and community data science packages

Develop data science projects using your favorite IDEs, including Jupyter, JupyterLab, Spyder and RStudio

Analyze data with scalability and performance with Dask, numpy, pandas and Numba Visualize your data with Bokeh, Datashader, Holoviews or Matplotlib

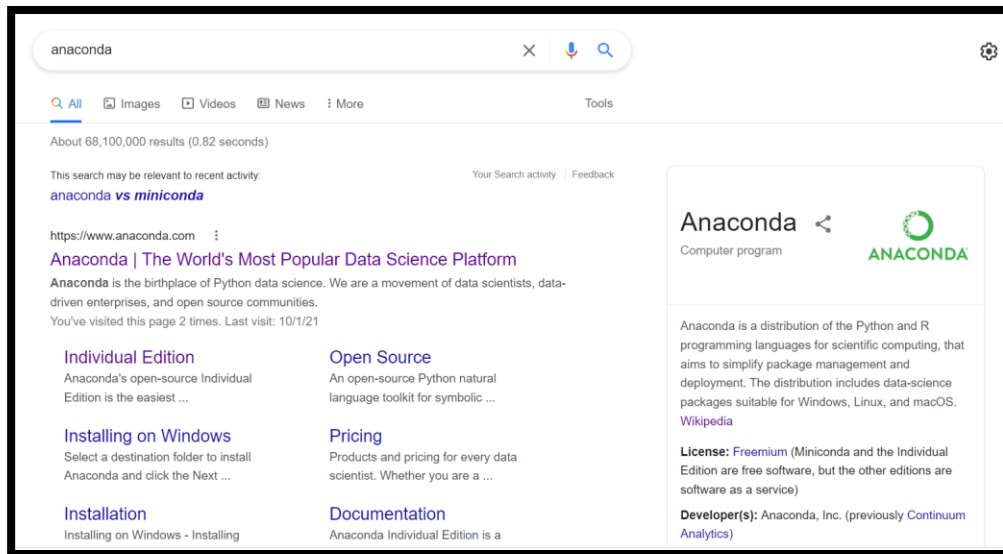
Create machine learning and deep learning models with Scikit-learn, Tensorflow, h2o and theano

Download & install Anaconda on windows operating system:

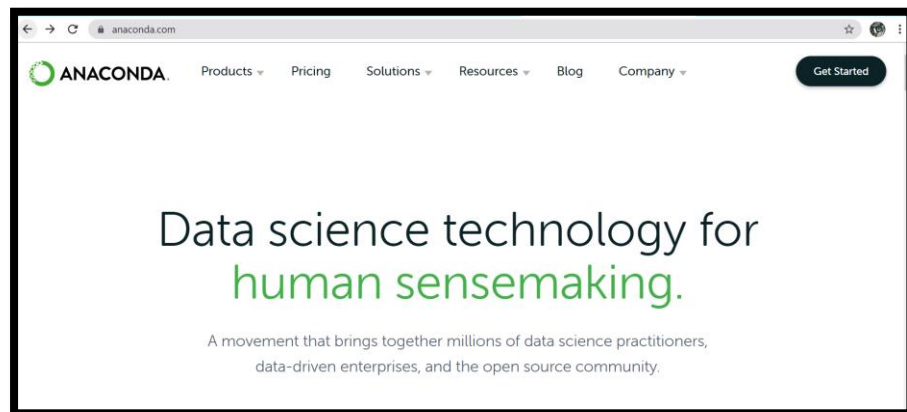
Open your browser

Search for Anaconda

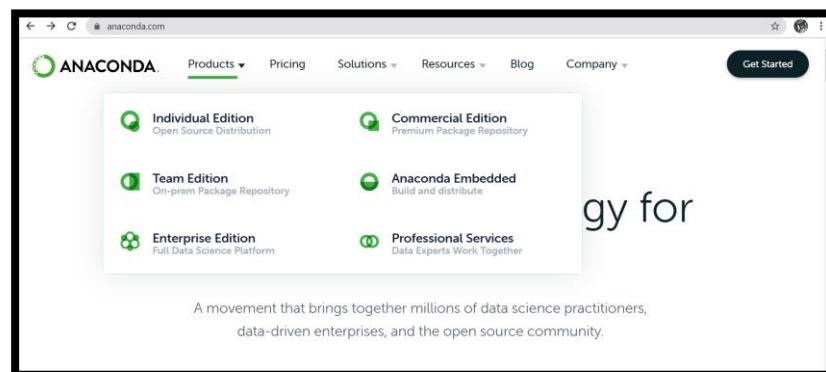
There you will see the official website <https://www.anaconda.com/>



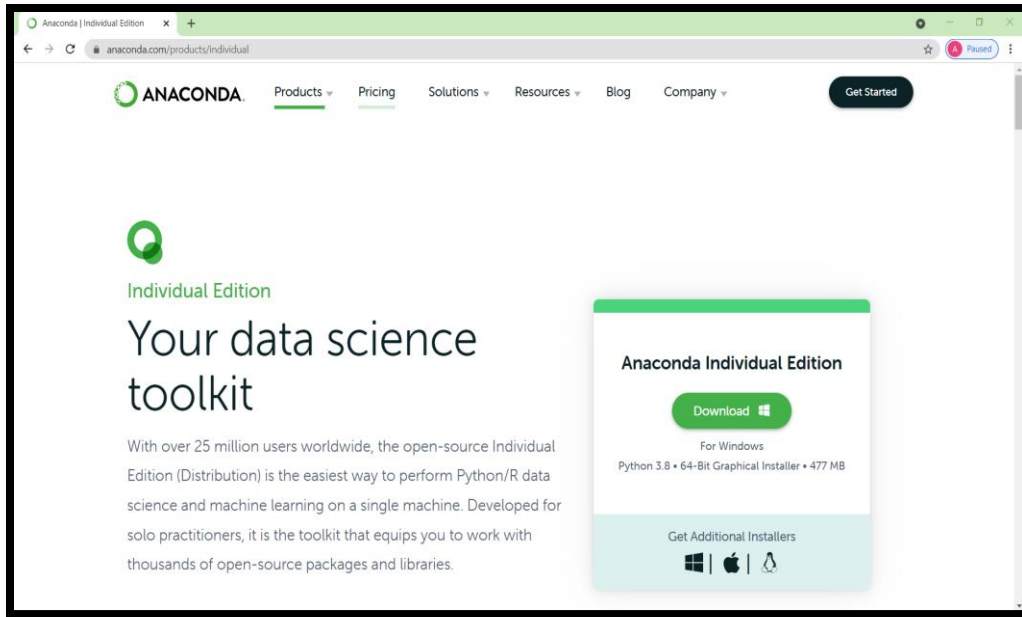
Open the official link



Go in the product section and select the individual edition as we want to use it only for an individual



Afterwards you'll see this window in front of you



It has various options for different operating systems with different 3 and 6 bit options

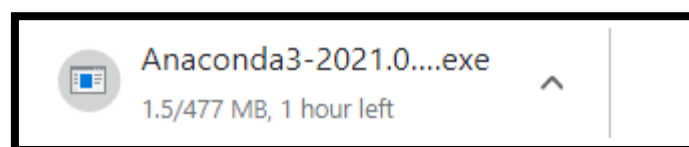
To install it on Windows choose the desired option

My system is 64 bit and it will be compatible with the 64-bit one

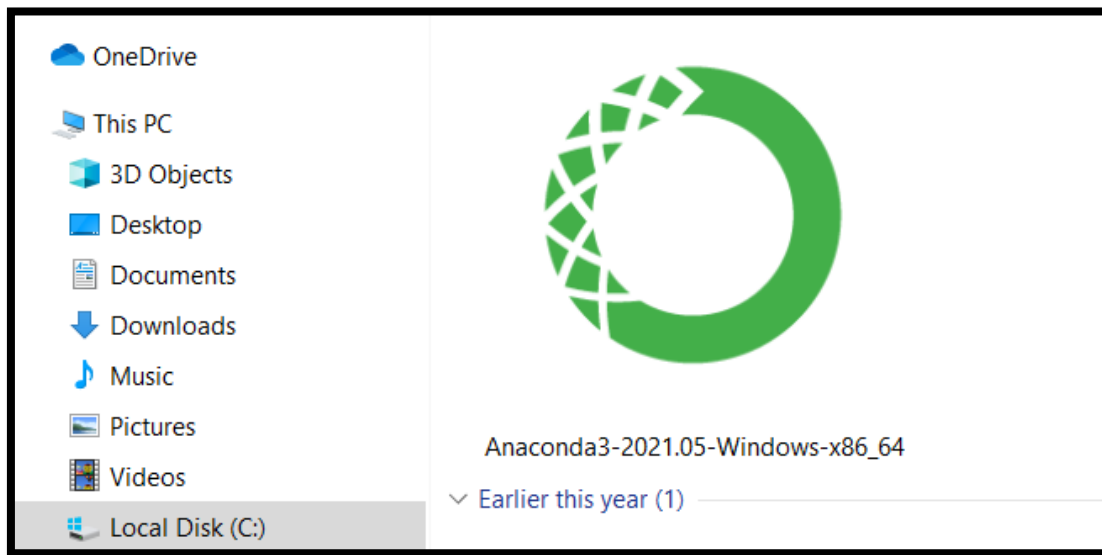
Click on the desired option



After clicking downloading will began i.e. Exe file



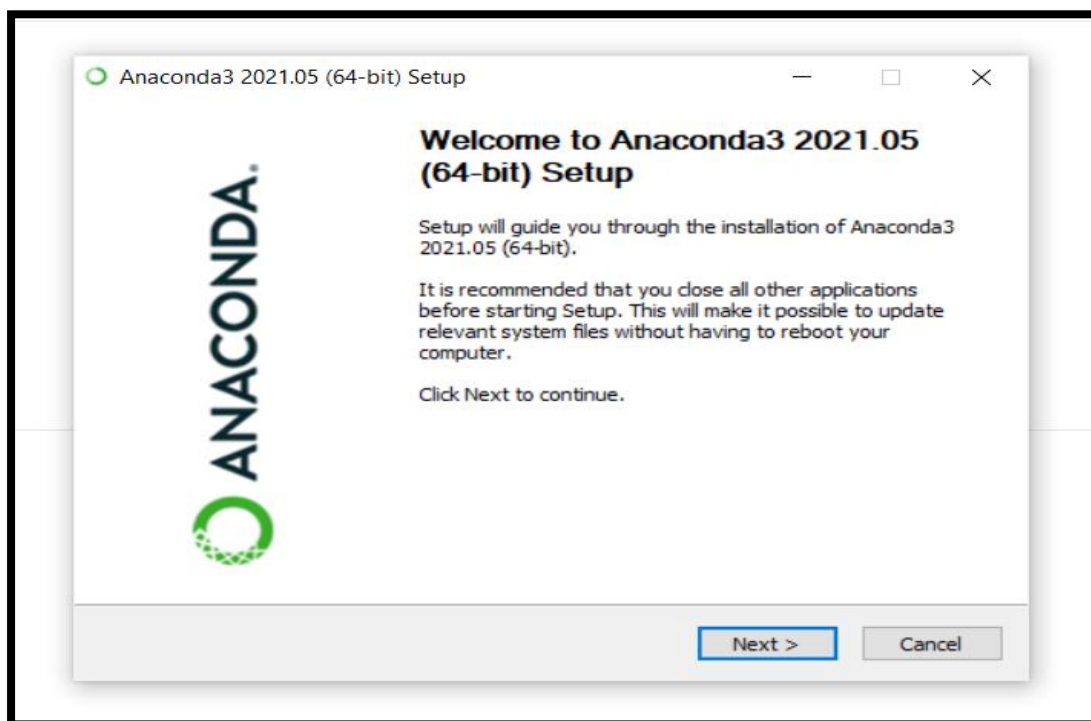
Here we can see the setup has been downloaded successfully on the PC



Open the downloaded file

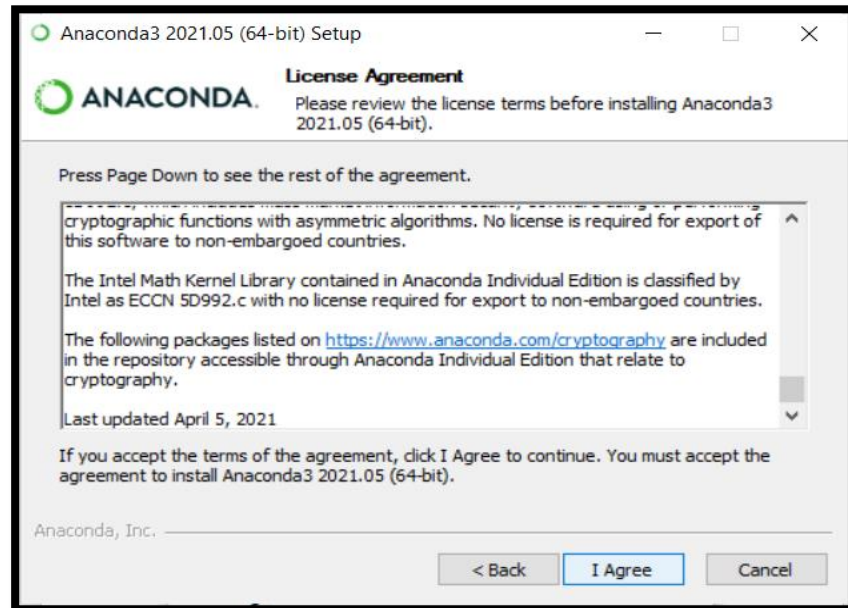
Next what you'll see will be this window

Click next from here to continue



Next the license agreement will appear in front of you

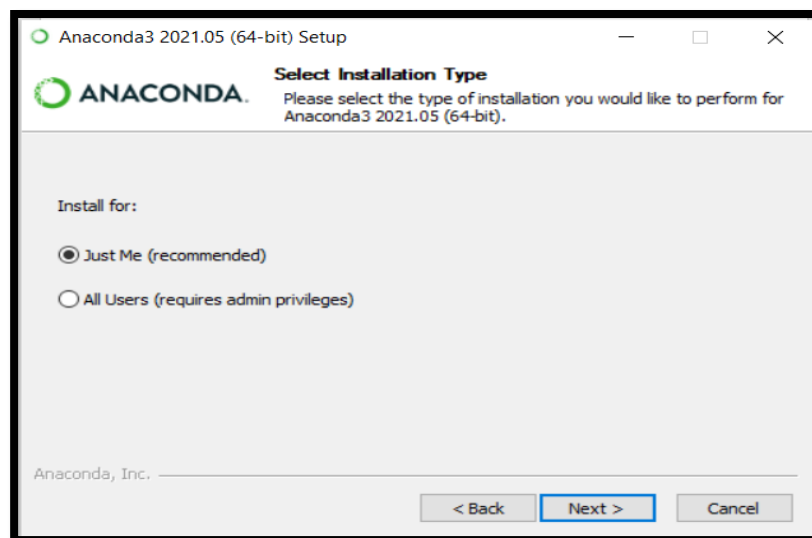
Read the agreement and that click I agree if you have no issues from the information provided above



After agreeing with the license agreement you have to select installation type

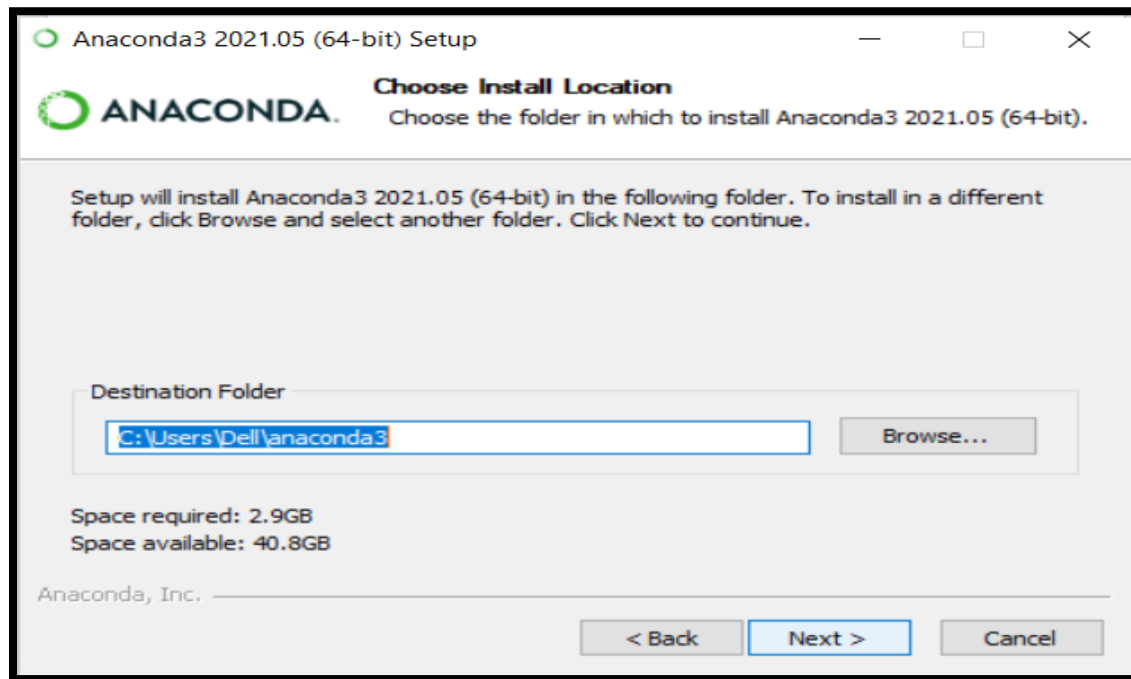
If you want to use it only for yourself as I want to select just me and vice versa

Then click Next



Choose the location for the installation of the setup on your PC

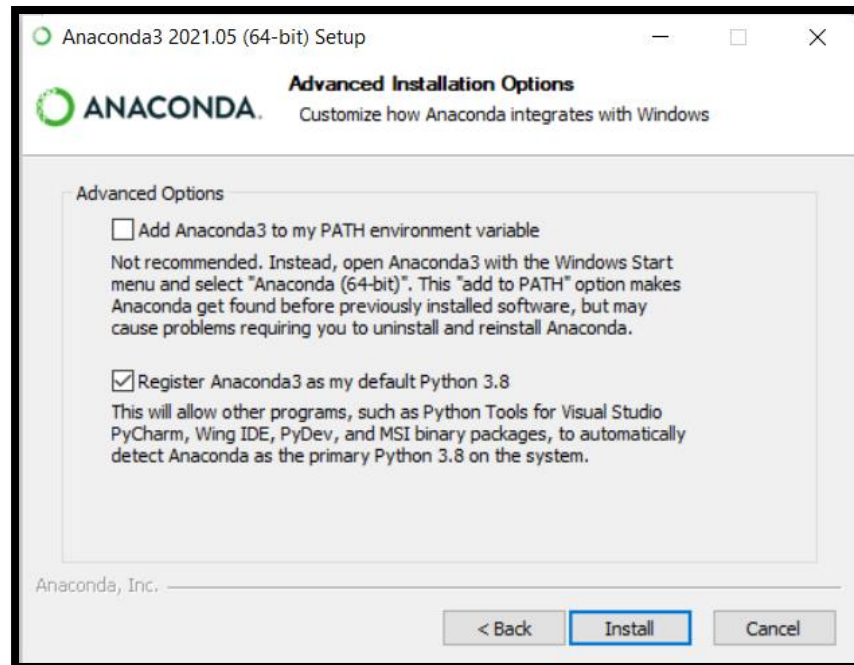
After choosing the location click next



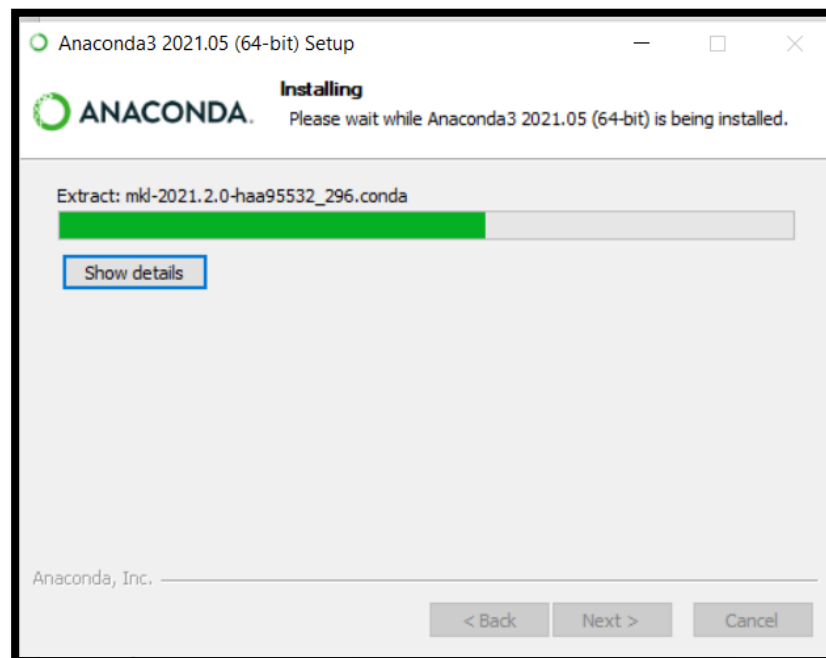
After selecting the location you'll see the advanced installation options

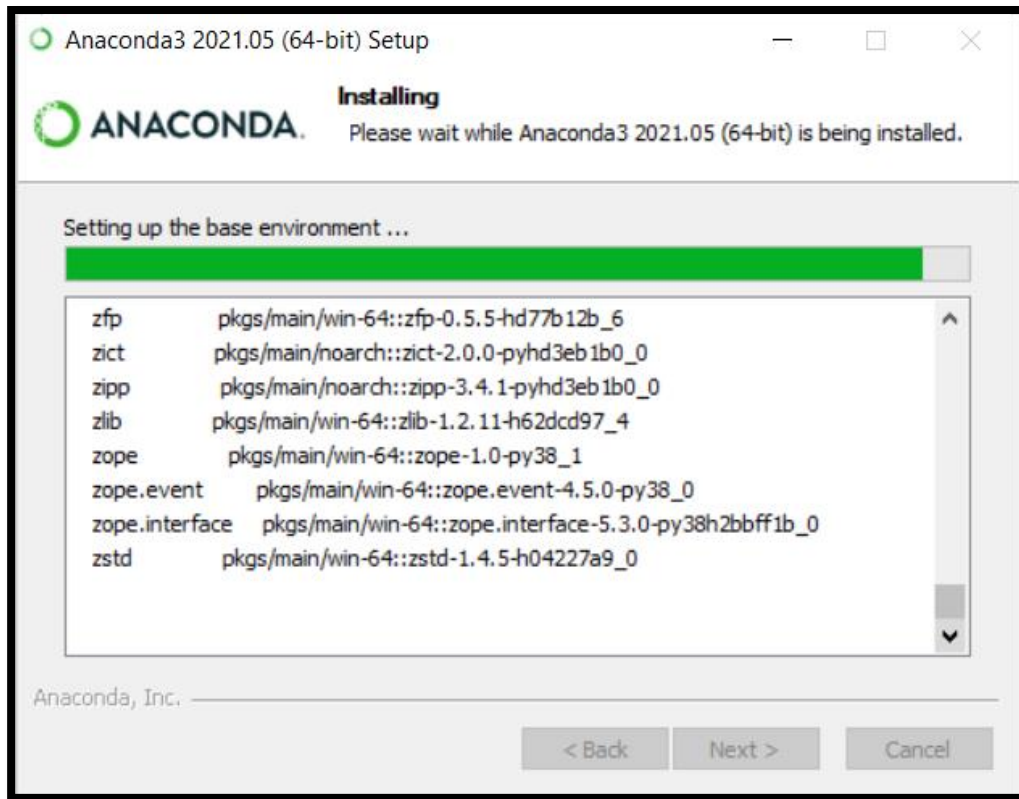
Make sure that the desired option has been selected . Unless you plan on installing and running multiple versions of Anaconda or multiple versions of Python, accept the default and leave this box checked.

Then click install

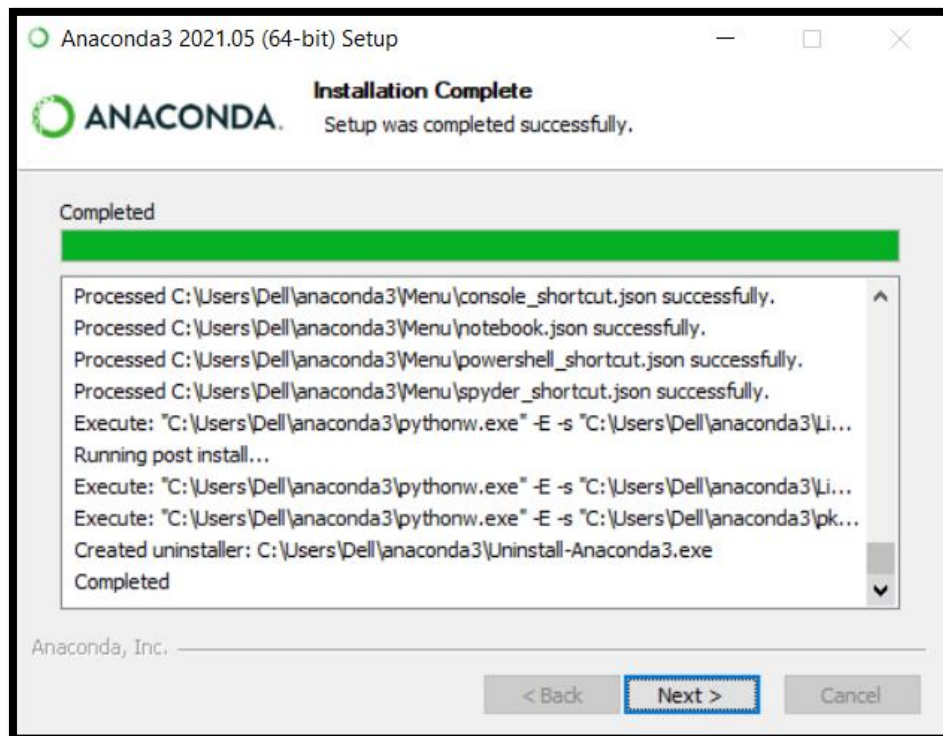


Installation will began

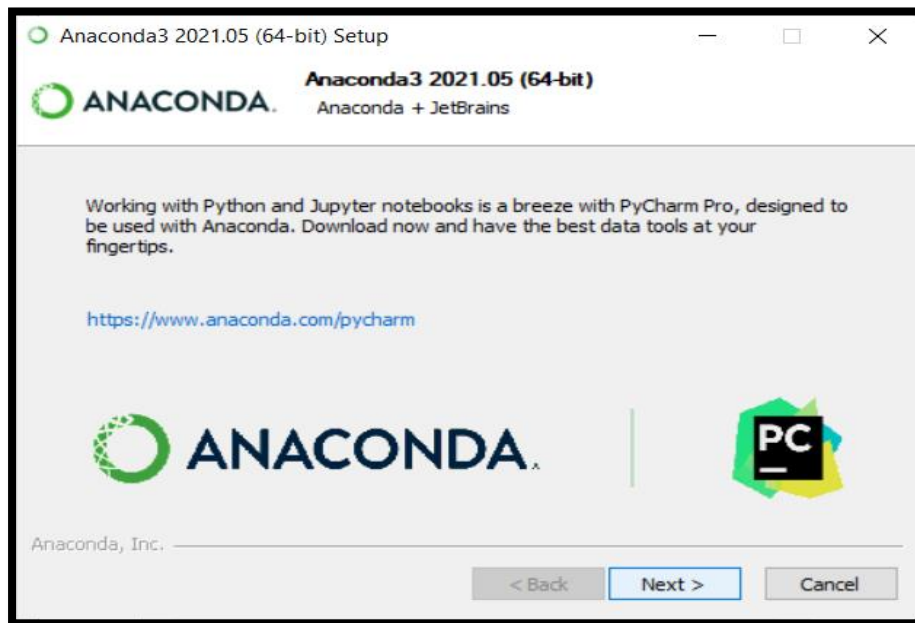




Once the installation has been completed Click next

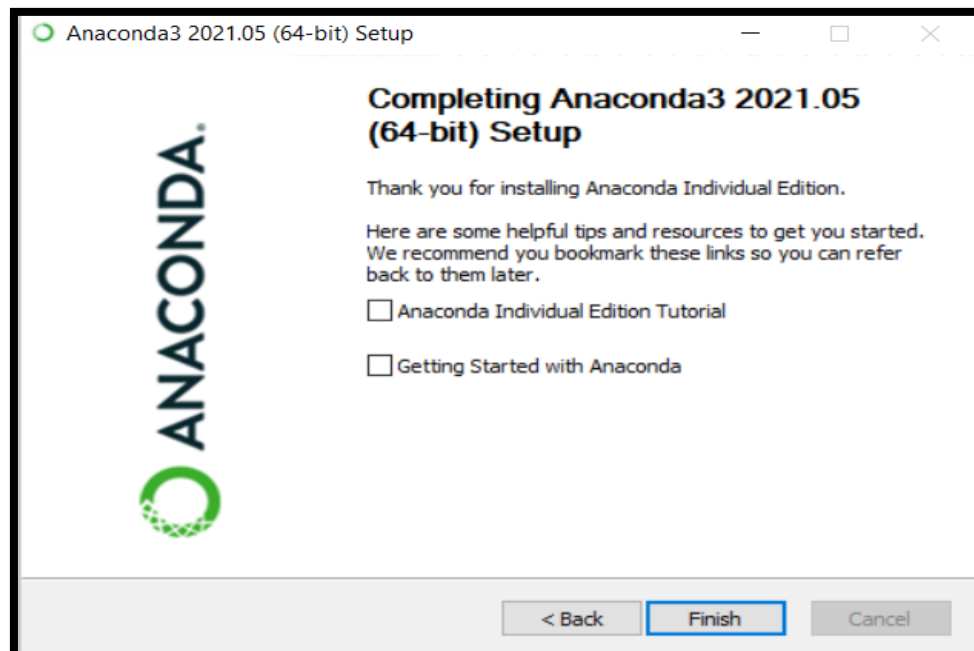


Click Next after reading the instructions in order to continue



I have un checked the boxes but if you want to watch the tutorial or start anaconda you can leave these boxes checked

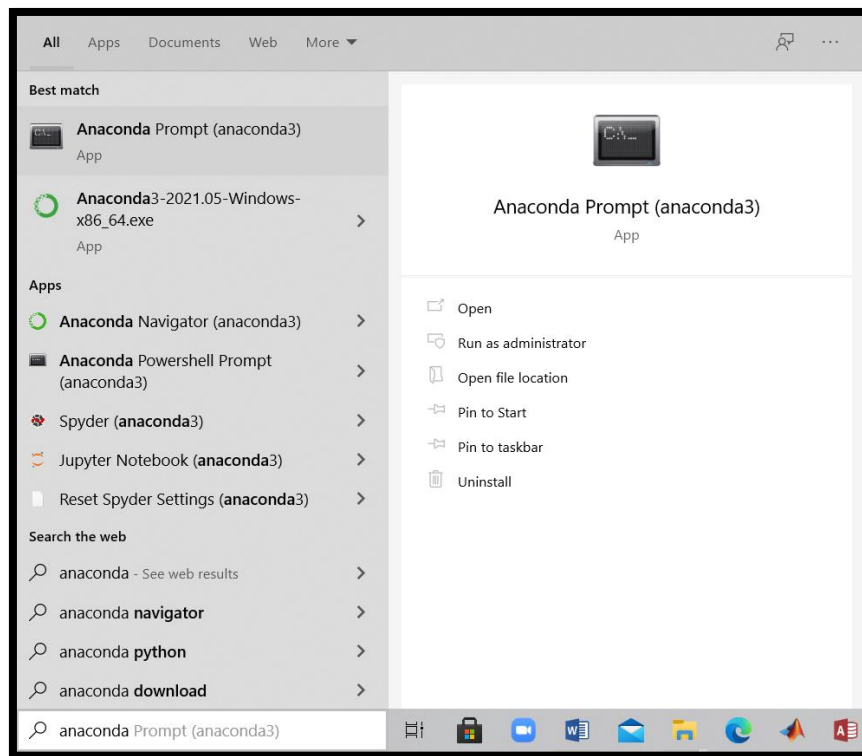
After wards click finish



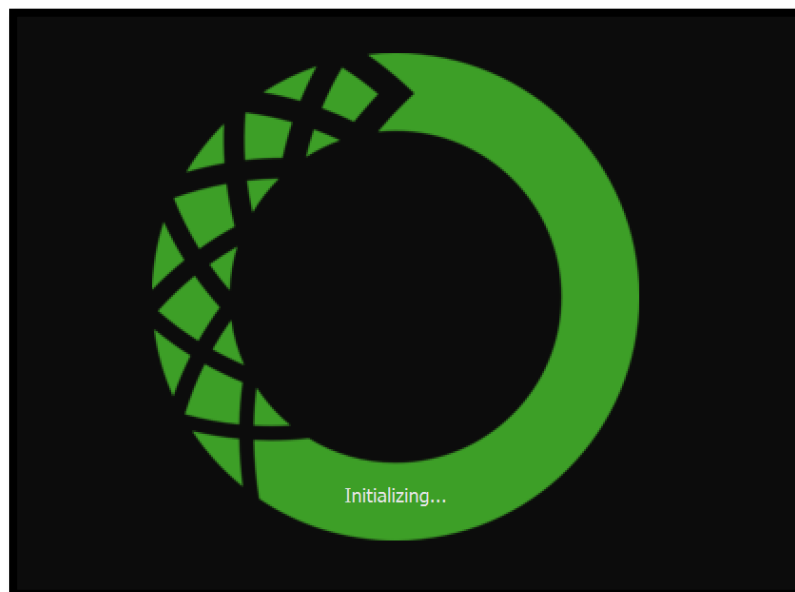
Go on the search bar of the PC and search for Anaconda

There you will see various anaconda option as shown below

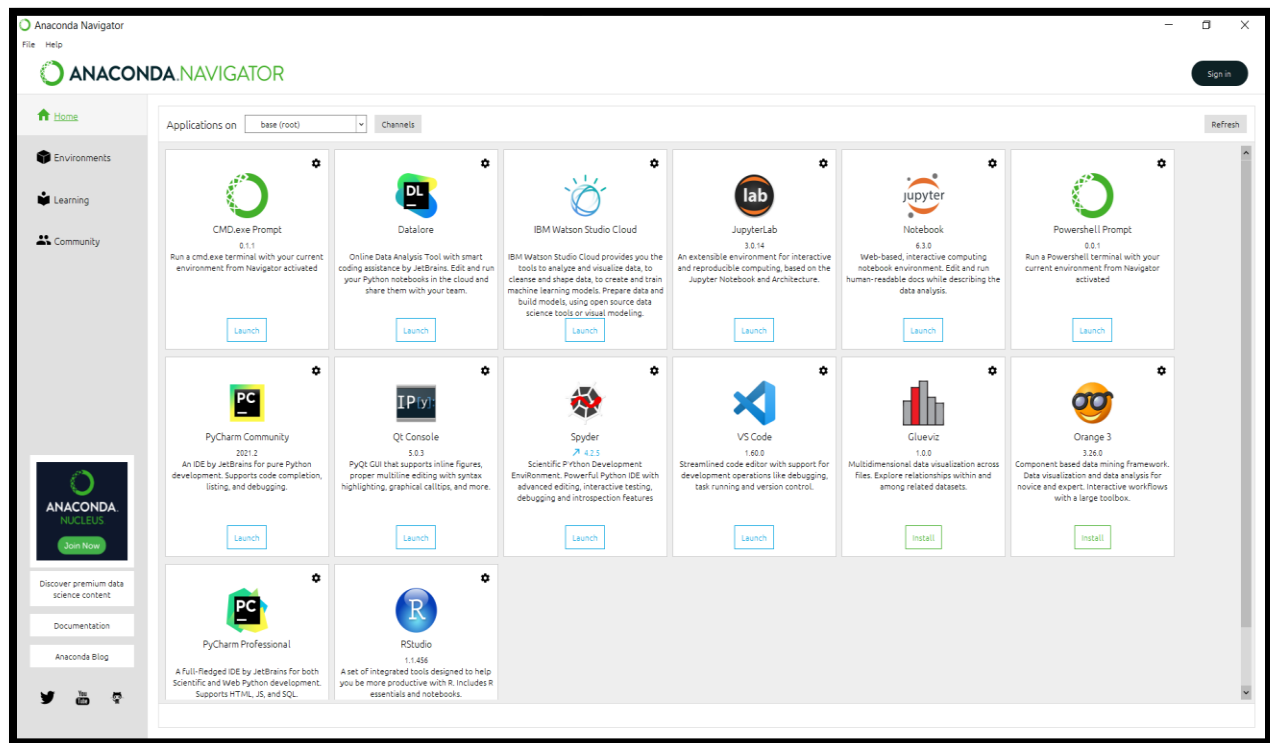
Select Anaconda Navigator



Anaconda will start initializing

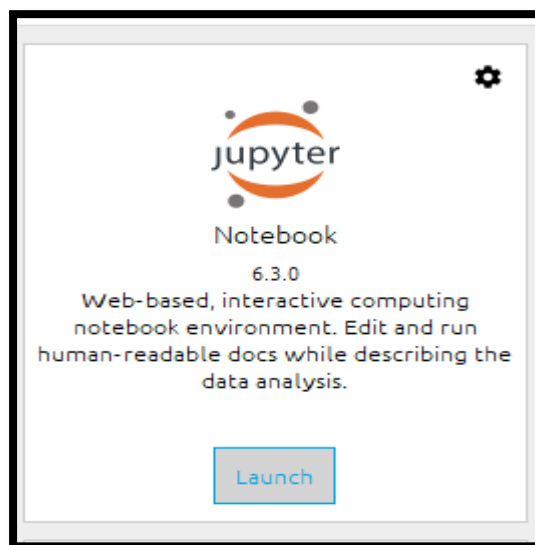


Then you'll see the anaconda environment with various IDEs such as jupyter notebook, pycharm, spyder etc



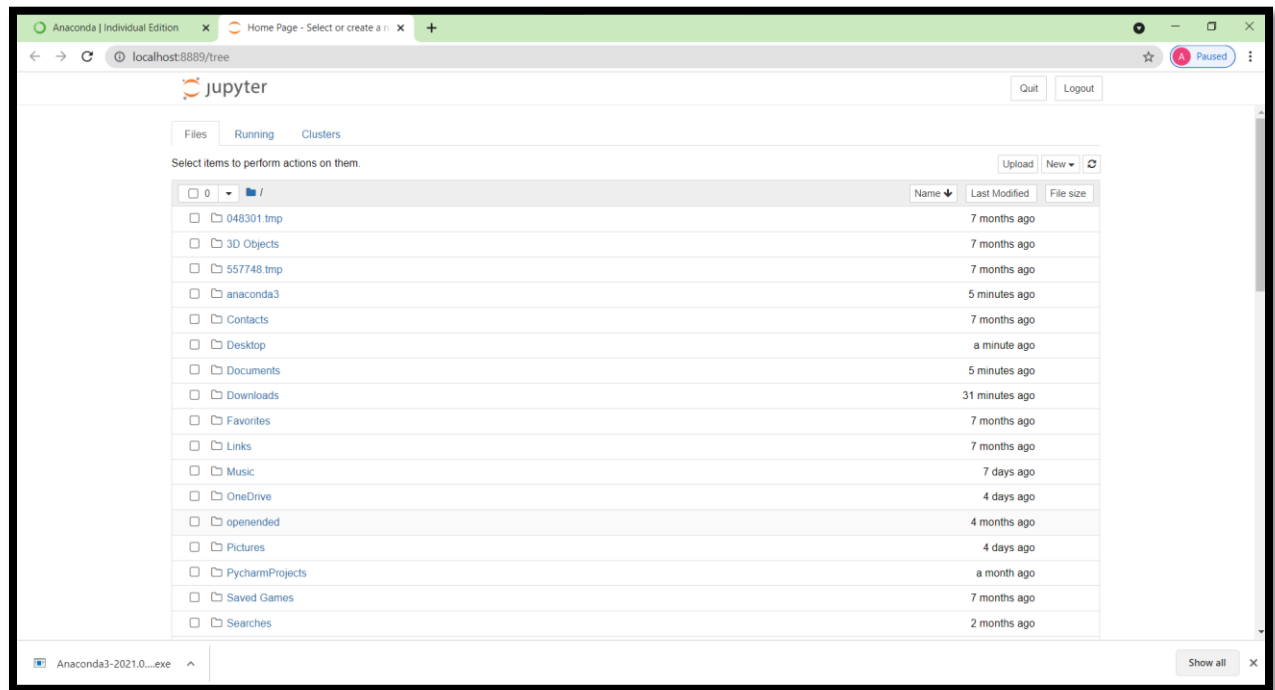
For printing Your Name:

Launch the Jupyter notebook

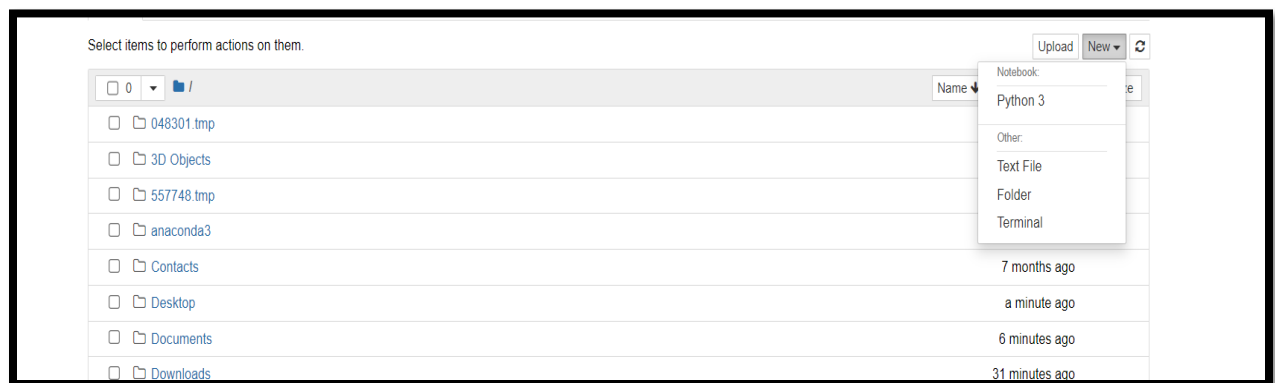




After launching you'll see this window



Click new and select python 3 to open jupyter notebook's file



You'll see this type of environment

