**Anaconda**:

Not the anaconda snake for sure :P

We will look at how to install Anaconda. Before that let’s discuss something about python.

Why is it so famous? – It is easy to work with, as we know it provides different types of libraries to work with ex: machine learning has different libraries, GUI different. Now the question is if you want to work with these libraries/packages will we get these be default. Think about working with numpy or any other module that we can work with, did they come by default ? ***discuss – we installed it using pip***

What if you need something where you can get all the libraries which are required and even if you need something extra you can get it easily. Yes, we can do it with the help of ***Anaconda.***

Let’s take a look at how to install Anaconda. Go to google and search for Anaconda: Ignore the Anaconda movies/images and focus on ***anaconda.com -*** [***https://www.anaconda.com/***](https://www.anaconda.com/)The most popular data science platform : give a read of ***About*** page which will help us to understand what it is used for.

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Since it has lot of things included in it, it is a heavy application and let’s download it.

<https://www.anaconda.com/products/distribution>

As we know that it is a heavy application, it will consume around 3GB of space on your drive.

During the installation process we will select register anaconda as my default python 3.x as shown in the below image. It will take sometime to install.

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* Once after the anaconda is installed, we will navigate to start menu and search for anaconda. This will populate anaconda prompt and anaconda navigator. Let’s open ***navigator*** and we will see something as shown below. Discuss the features or options available in the navigator

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* Using anaconda prompt we can access python as we do using command prompt.

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* You can try print statement and if we want to access something like Spyder(we can know a bit about it from Navigator). Now let’s access it from ***anaconda prompt.*** Just type spyder and hit **enter.** It can be accessed via navigator by launching it as well. It will take time to launch, let’s give it sometime. We can try a print statement as shown below to test if it works, observe the output in the console to the right.

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* Let’s launch JupyterLab from the Navigator and it looks like something as shown below. Click on notebook🡪 enter 2+3 and run it🡪 observe the result 5 as shown in the next screenshot

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**Jupyter Notebook Setup**

We will look at How to install Jupyter Notebook and how to use it? And what Jupyter Notebook is ?

We know that after installing anaconda we got Jupyter notebook as well. Open the Anaconda Navigator and launch the Jupyter notebook as highlighted below.

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It will take sometime to launch and it looks like something as shown below.

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When you want to work with python we can use VSCode, Pycharm or sypder IDE which anaconda provides or we can use Jupyter as well. For learning purpose Jupyter is recommended. Let’s see why

Click New 🡪 Python3

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It will launch something like as shown below:

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Since Anaconda is heavy, can we get Jupyter without installing Anaconda ? – ***Yes,*** we can do it.

Let’s go to our beloved google and type Jupyter and see what comes up. Follow the official site and try it on browser or install the notebook.

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Try it on browser🡪 try Jupyter with Python🡪 It will take sometime to load🡪 so be patient until it loads.

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* While it loads on browser, let’s try to install it on our machine. We can see the options available 1) It recommends to get it installed using Anaconda 2) ***Install it using pip*** (provided you have python installed, provided you have path set).

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* Okay, now what does it mean by python installed and path set? – when you open your command prompt and type python we should see the below prompt and when I mean set path means we should set the path for python in our environmental variables. You can make use of this url for setting the path: <https://www.educative.io/edpresso/how-to-add-python-to-path-variable-in-windows> and for installing python on windows: <https://www.tutorialspoint.com/how-to-install-python-in-windows>
* If you are using linux, I suggest you to do your own research and install it.

Text

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* Take a look at browser if Jupyter notebook has loaded, if it has then, it should look something like as shown below.

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* Now let’s install Jupyter notebook on our machine with the help of steps provided, either using python3 or python

Graphical user interface

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* Type ***Jupyter notebook*** in cmd prompt so that it will launch in browser. **If it doesn’t troubleshoot the issue**

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* Try the below mentioned steps: **shift+enter** is the shortcut to run the command.

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* What if you want to run complex code, we can paste it here and it works. What if we want to write some documentation, in that case we can make use of the dropdown and select ***markdown*** as shown below

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***Shift+enter*** and this will be considered as comments/notes

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You can set it as heading as well. Explore the various options available on Jupyter Notebook.

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