Using Jupyter Notebooks for Data Science

First of All, What is Anaconda & Why Should I bother about it?

You probably already have Python installed and will be wondering why you need this at all. Firstly, since Anaconda comes with a bunch of data science packages, you'll be all set to start working with data. Secondly, using conda to manage your packages and environments will reduce future issues dealing with the various libraries you'll be using. In most real-world Data Science projects, conda based packages and environments are widely used and I personally preferred conda based package installation and maintenance of projects than installing and maintaining directly PIP based packages.

So, Why Anaconda?

Anaconda is a distribution of packages built for data science. It comes with conda, a package, and an environment manager. We usually used conda to create environments for isolating our projects that use different versions of Python and/or different versions of packages. We also use it to install, uninstall, and update packages in our project environments. When you download Anaconda first time it comes with conda, Python, and over 150 scientific packages and their dependencies. Anaconda is a fairly large download (~500 MB) because it comes with the most common data science packages in Python, for people who are conservative about disk space, there is also Miniconda, a smaller distribution that includes only conda and Python.

Now to install Anaconda on your platform please follow these links:

- Installing on Windows
- Installing on macOS
- Installing on Linux

Another useful tool to run python for Data Analytics is Google Colab.

Colab, or "Collaboratory", allows you to write and execute Python in your browser, with

- Zero configuration required
- Access to GPUs free of charge
- Easy sharing

Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch Introduction to Colab to learn more, or just get started below!

To use colab use this link:

https://colab.research.google.com/?utm_source=scs-index#scrollTo=5fCEDCU_qrC0

To know more about it read the following:

https://medium.com/lean-in-women-in-tech-india/google-colab-the-beginners-guide-5ad3b417dfa