Getting Started in Python

using Anaconda

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https://github.com/erkundanec/PatternClassification

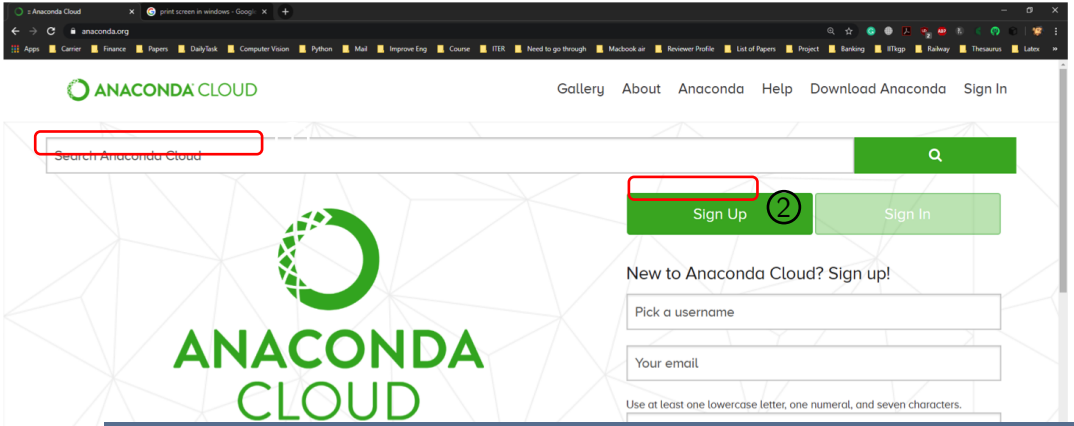
Introduction

- Anaconda is an open-source distribution for python and R.

- It is used for
  - data science,
  - machine learning,
  - deep learning, etc.
- More than 300 libraries are available for data science.
- Simplified package management and deployment.
- An easily manageable environment setup which can deploy any project with the click of a single button.

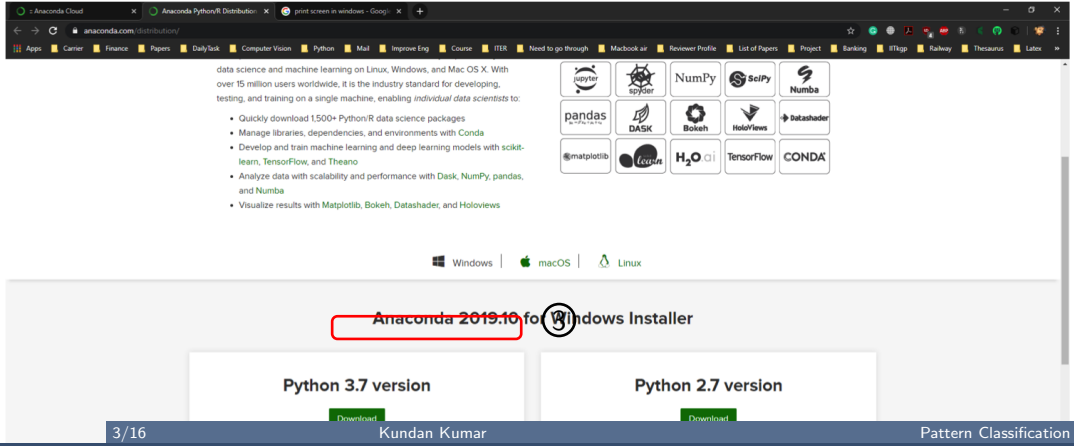
Where to find Anaconda?

1. Go to website: https://www.anaconda.org
2. Click on download on top-right corner and scroll down.



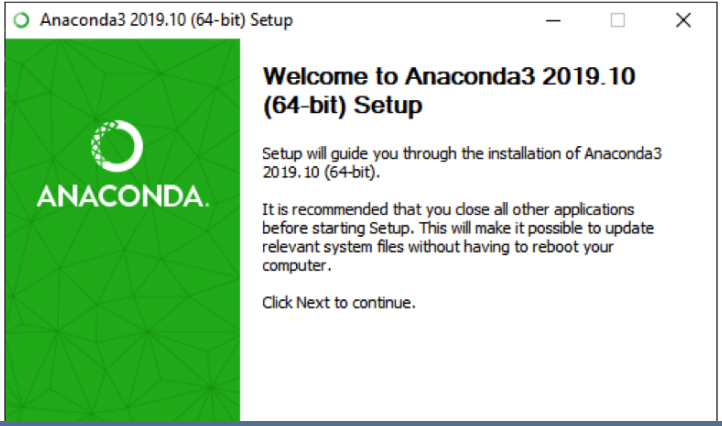
Where to find Anaconda?

3. Choose your operating system.
4. Download 64-Bit or 32-Bit Graphical Installer (Python 3.7 version).



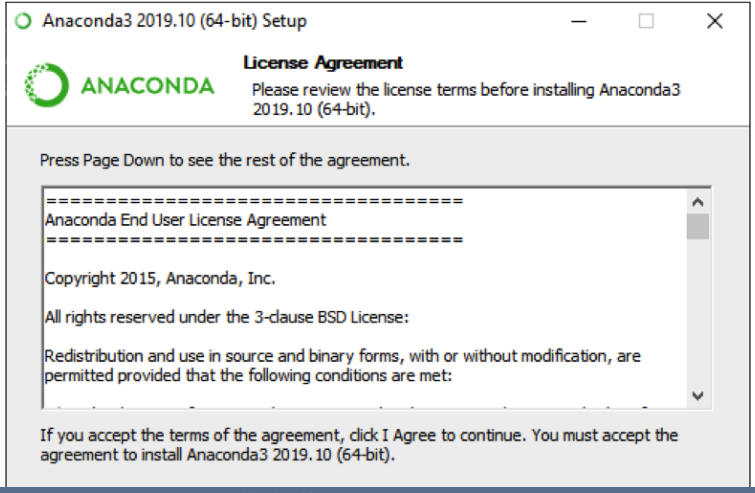
How to install Anaconda?

- In windows, double click the installer to run (you may choose run as Administrator for safe side).
- Click on Next.



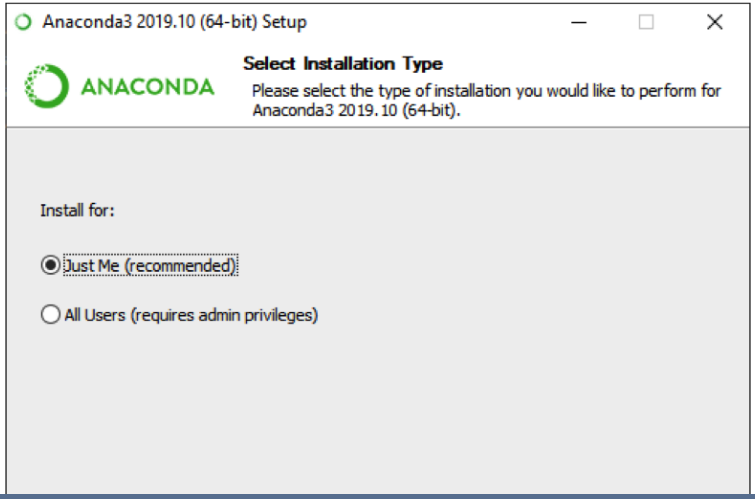
How to install Anaconda?

- Click on I Agree.



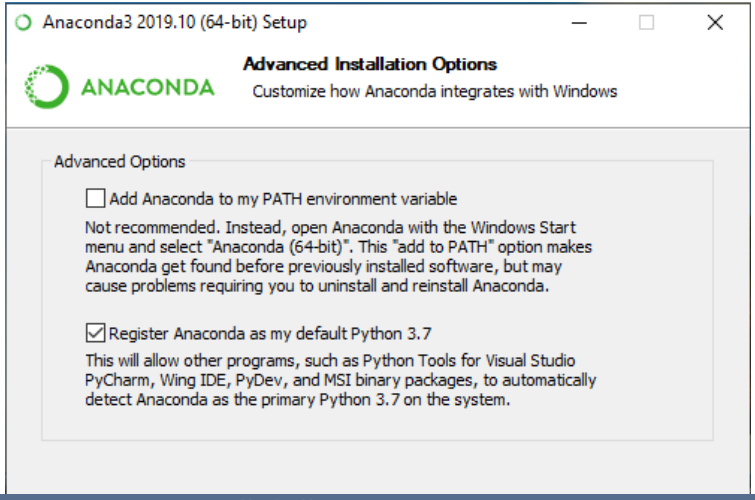
How to install Anaconda?

- Click on Next.



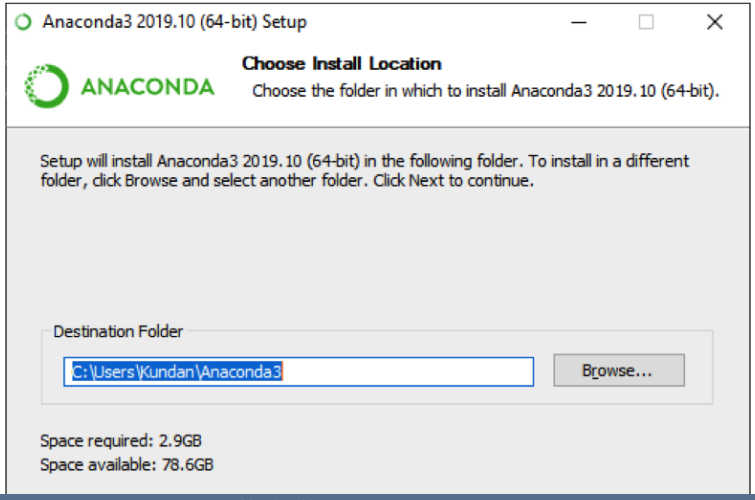
How to install Anaconda?

- Click on Install.



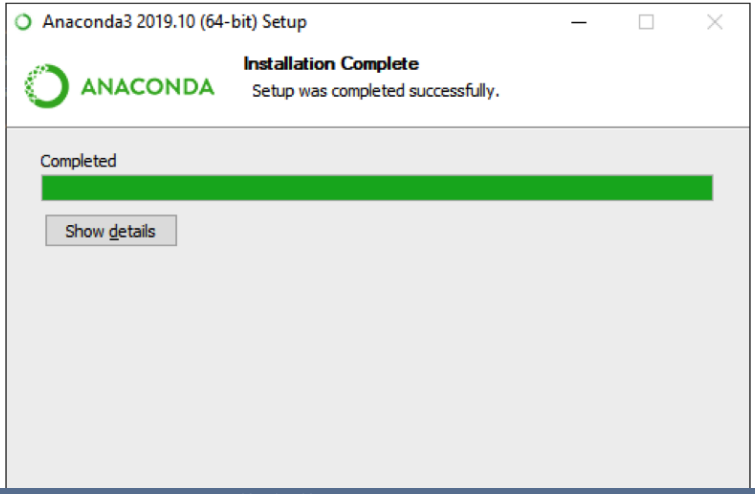
How to install Anaconda?

- Click on Next.



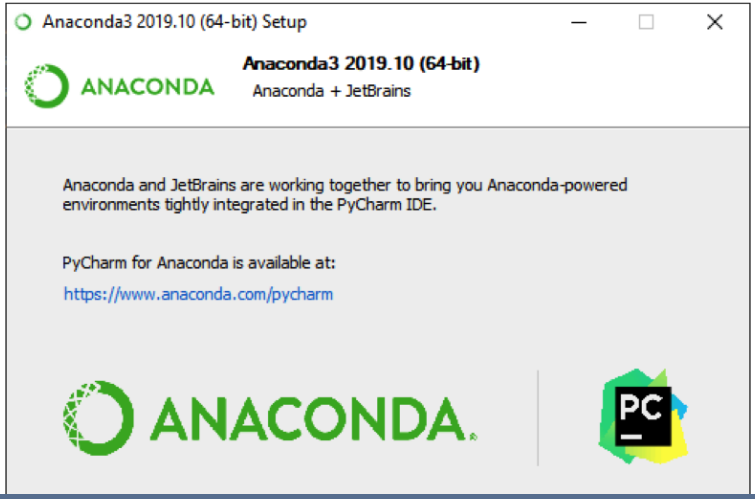
How to install Anaconda?

- Click on Next, when it gets highlighted.



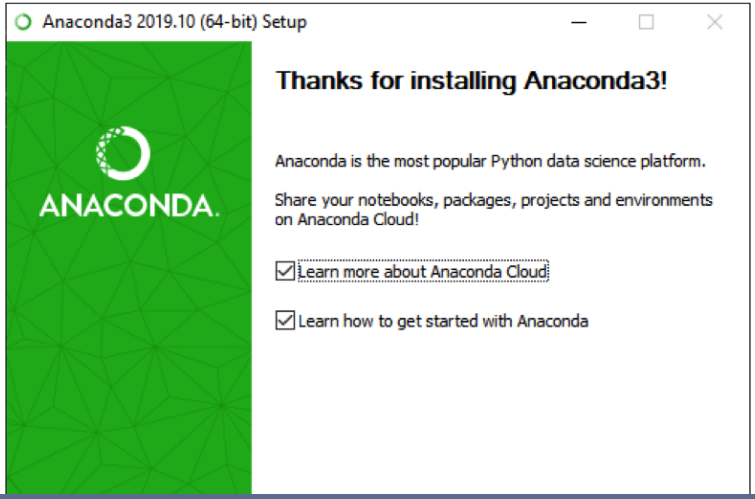
How to install Anaconda?

- Click on Next.



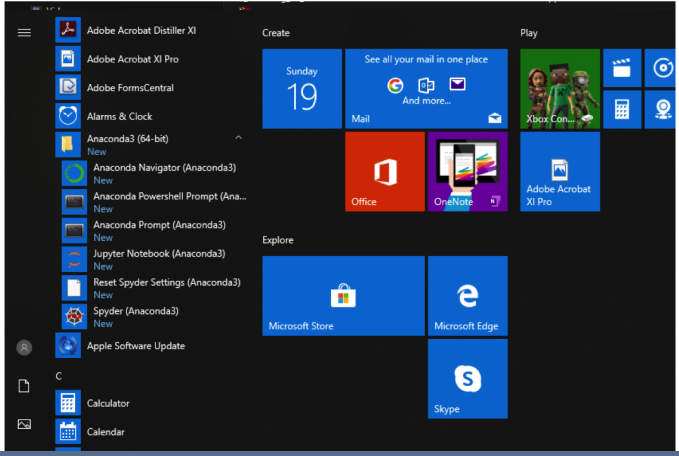
How to install Anaconda?

- Click on Finish.



Open Anaconda Powershell Prompt

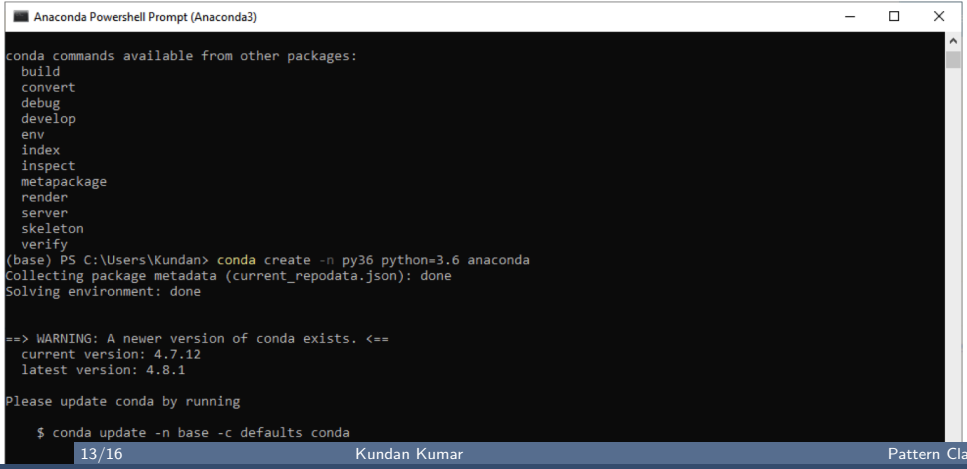
- Go to start (bottom-left corner) and scroll down to find Anaconda3 (64 bit).
- Click on Anaconda Powershell Promt to open it.



Check, is anaconda in path?

- In the powershell prompt run "conda" to ensure that anaconda is in path.

$ conda



How to create a virtual environment?

- To create a virtual environment run

$ conda create -n py36 python=3.6 anaconda

- press Y to proceed. Wait for complete the installation.
- After the completion of the installation, activate the virtual environment as

$ conda activate py36

- Ensure that default environment base is changed to py36.
- To deactivate the environment

$ conda deactivate

NOTE: You can use up and down key in the keyboard to see command history executed.

How to switch to other environment?

- Start Jupyter-Notebook by running command.
- A localhost will open in default browser with address
- Browser will show your directories. You can create your project directory and can start coding by creating New notebook (right-top side of the screen)

Thank you!