
Class 2 – Python Crash Course

Pedram Jahangiry



Install Python with Anaconda

Anaconda:

- A distribution of python
- Includes Python and many other libraries
- All-in-one install

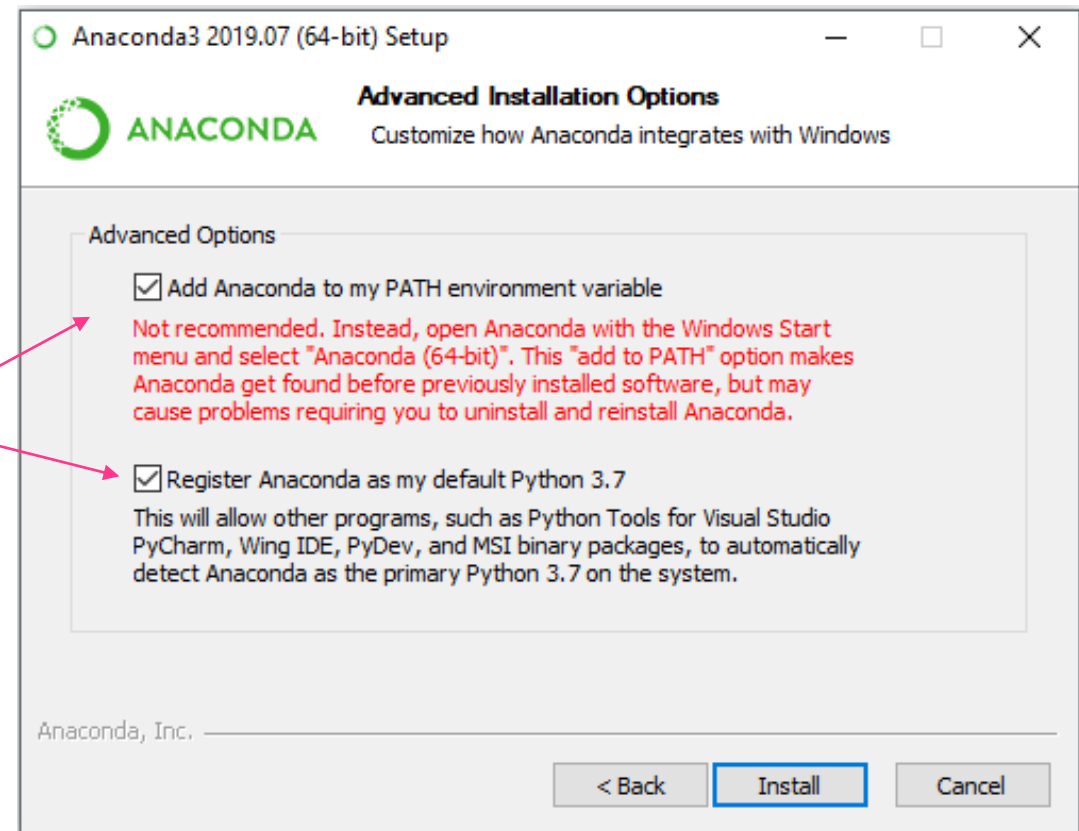
Jupyter:

- A development environment for writing code and markdown and display images
- Most popular IDE
- Best learning/teaching tool

Install Python with Anaconda

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

1. Download the Graphical Installer
2. Make sure checking both boxes
3. Search for Anaconda Navigator



Data Science Libraries

- Numpy:
 - A Linear Algebra library for python.
 - Very fast (binding to C libraries)
 - Building block of almost all of the libraries in the PyData ecosystem (Pandas, Scipy, Scikit-learn and etc).
- Pandas:
 - A library built on top of Numpy.
 - Allows for fast analysis and data cleaning
 - Has built-in visualization features
- To install any library:
 - conda install numpy
 - pip install numpy

Data Science Libraries

- [matplotlib:](#)
 - Most popular plotting library for python.
 - Very similar to MATLAB's plotting.
- [seaborn:](#)
 - A statistical plotting library
 - Built on top of matplotlib
- To install any library:
 - conda install numpy
 - pip install numpy