



Python for ML course.

Sila, August 26th, 2022.

In this course we will be using Python, along with a number of Python libraries.

There are many ways you can install this on your machine.

So, you need to figure out how you want to configure this on your machine.

Python is available here.

<https://www.python.org/downloads/>

There are 5 key libraries that you will need to install.

- scipy
- numpy
- matplotlib
- pandas
- sklearn

You will find instructions here:

<https://www.scipy.org/install.html>

Or, you can follow the instructions (p 40 – p 43, v.1, or p 46 – p 48, v2. depending on your version of the book) in the “Hands-On Machine Learning” book by Aurelien Geron.

Or, if you are on Windows, or if you are not that confident, I would recommend installing the free version of Anaconda that includes everything you need. Very likely the simplest way to get started.

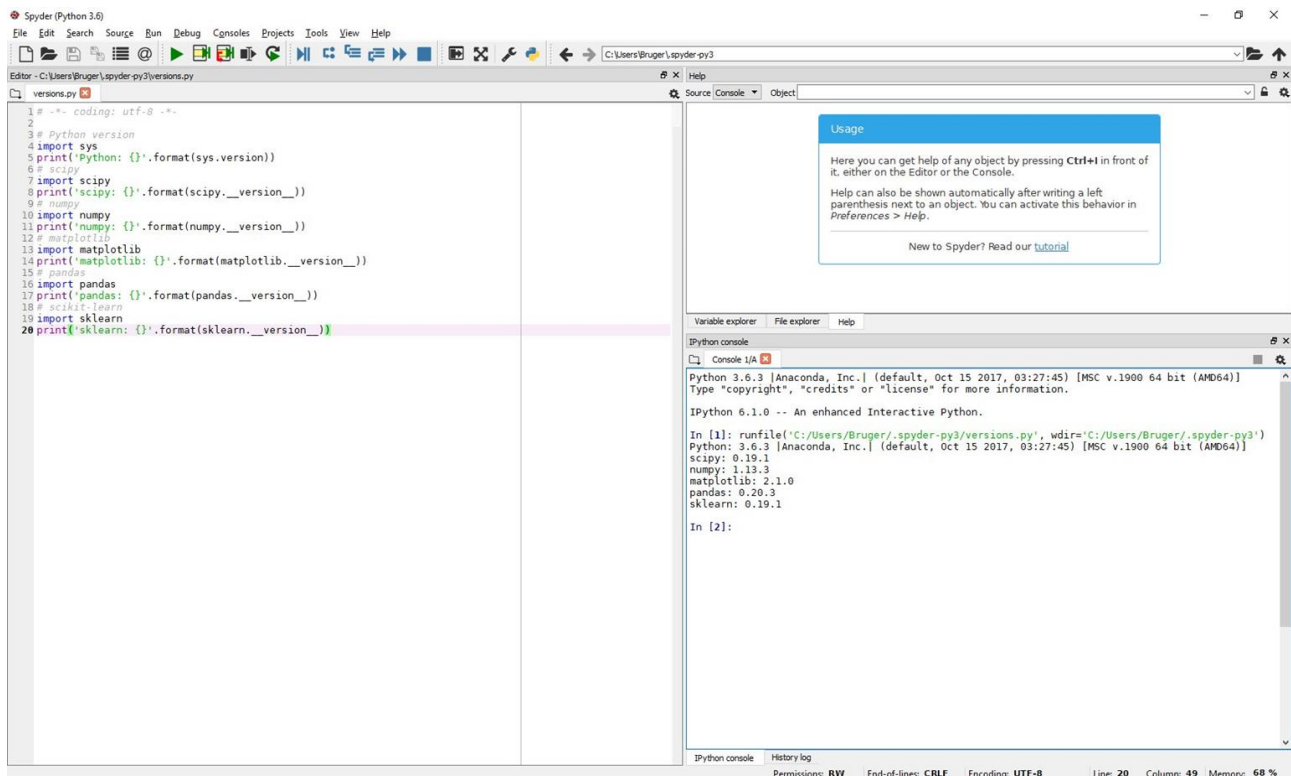
<https://www.anaconda.com/download/>

Using the Scientific Python Development Environment (Spyder) I get the following when I do this:

```
# Python version
import sys
print('Python: {}'.format(sys.version))
# scipy
import scipy
print('scipy: {}'.format(scipy.__version__))
# numpy
import numpy
print('numpy: {}'.format(numpy.__version__))
# matplotlib
import matplotlib
print('matplotlib: {}'.format(matplotlib.__version__))
# pandas
import pandas
print('pandas: {}'.format(pandas.__version__))
# scikit-learn
import sklearn
print('sklearn: {}'.format(sklearn.__version__))
```

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```
Python: 3.6.3 |Anaconda, Inc.| (default, Oct 15 2017, 03:27:45) [MSC v.1900 64 bit (AMD64)]
scipy: 0.19.1
numpy: 1.13.3
matplotlib: 2.1.0
pandas: 0.20.3
sklearn: 0.19.1
```



You will probably be alright even if you have older versions of the libraries. And newer versions are probably just better.

More:

Learn Python is a great resource for those who is just starting out with Python, and wants to know a little bit about the language:

<http://www.learnpython.org/>