The Python ecosystem for machine learning (data science)

1. Scipy Lecture Notes: <http://www.scipy-lectures.org/>
2. Python scientific computing ecosystem: <http://www.scipy-lectures.org/intro/intro.html>
3. Fully-featured Scientific Python distributions:
   1. Anaconda: <https://www.anaconda.com/download/>
   2. [EPD](https://store.enthought.com/downloads): <https://store.enthought.com/downloads/>
   3. WinPython: <https://winpython.github.io/>
4. IDE for Python: Spyder <https://pythonhosted.org/spyder/>
5. Numpy: numerical computing with powerful numerical arrays objects, and routines to manipulate them. <http://www.numpy.org/>

Reference Guide: <https://docs.scipy.org/doc/numpy/reference/index.html>

1. Scipy: high-level numerical routines. Optimization, regression, interpolation, etc <http://www.scipy.org/>

Reference Guide: <https://docs.scipy.org/doc/scipy/reference/>

1. Matplotlib, Python 2D plotting library: <https://matplotlib.org/>

Pyplot: <https://matplotlib.org/api/pyplot_summary.html>

1. Pandas, Python Data Analysis Library (data input-output, basic statistics and graphics): <http://pandas.pydata.org/>
2. Seaborn: statistical data visualization library based on matplotlib: <http://seaborn.pydata.org/>
3. Scikit-learn, machine Learning in Python: <http://scikit-learn.org/stable/>

Manual: <http://scikit-learn.org/stable/user_guide.html>

Manual in pdf: <http://scikit-learn.org/0.20/_downloads/scikit-learn-docs.pdf>

Tutorial: <http://www.scipy-lectures.org/packages/scikit-learn/index.html#scikit-learn-chapter>