**Data Science Roadmap**

**Basic Python Course for fundamental understanding: (RECOMMENDED)**

<https://www.udacity.com/course/introduction-to-python--ud1110>

**Basic Tools you need:**

1. Python
2. Jupyter Notebook
3. Data formats
4. Basic SQL
5. Python version control
6. Python libraries:
   1. Pandas: https://pandas.pydata.org/docs/
   2. MySQL: https://www.w3schools.com/python/python\_mysql\_getstarted.asp
   3. Matplotlib: https://matplotlib.org/stable/users/index
   4. Seaborn: <https://seaborn.pydata.org>
   5. Numpy: https://numpy.org/doc/stable/

Very Basic Data science courses:

This is a Nanodegree program, but free version is also available

**Programming for Data Science with Python:**

<https://www.udacity.com/course/programming-for-data-science-nanodegree--nd104>

**MIT MicroMasters Program in Statistics and Data Science:**

<https://micromasters.mit.edu/ds/>

**HarvardX: Introduction to Data Science with Python:**

<https://www.edx.org/learn/data-science/harvard-university-introduction-to-data-science-with-python>

**IBM: Introduction to Data Science:**

<https://www.edx.org/learn/data-science/ibm-introduction-to-data-science>

**IBM: Python Basics for Data Science:**

<https://www.edx.org/learn/python/ibm-python-basics-for-data-science>