

Python Programming

What is Python

- Python is
 - a powerful high level programming language
 - object-oriented: encapsulate code in object
 - a suitable language for beginners
 - few keywords, simple structure, clear syntax
 - interpreted: processed at run-time
 - interactive: use Python prompt

Installation

- Anaconda distribution
 - Easiest way to perform Python/R data science and machine learning on Linux, Windows, and Mac OS X
 - Access to Python/R data science packages (numpy)
 - Manage libraries, dependencies, and environments with Conda
 - Develop machine learning and deep learning models (scikit-learn, Tensorflow)
 - Download Python 3.7 version (<https://www.anaconda.com/distribution>)

Installation

- Deep learning packages
 - Follow the link (<https://medium.com/@margaretmz/anaconda-jupyter-notebook-tensorflow-and-keras-b91f381405f8>)
 - Install TensorFlow (including Keras)
 - Launch Jupyter Notebook (with cpu)

Resources

- Jupyter notebook
 - <https://www.dataquest.io/blog/jupyter-notebook-tutorial/>
- Python
 - <http://cs231n.github.io/python-numpy-tutorial/>
 - <https://www.guru99.com/python-tutorials.html> (Python basics, data structure, fundamentals)
 - <https://www.w3schools.com/python/>

See you at the workshop