**Deep Learning Workshop**

**Requirements:**

* Python **2.7** is the required version of Python for these classes.
* Python libraries required: **IPython notebook**, **Numpy**, **Matplotlib**, **Pandas**, **Keras**, **sklearn.**

**==> If you have an existing Python 2.7 installation:**

* ***pip*** (*should be installed on recent Python distributions*) - [Installation instructions](http://python-packaging-user-guide.readthedocs.org/en/latest/installing/#install-pip-setuptools-and-wheel).
* ***IPython notebook*** - pip install jupyter - [Installation instructions](http://jupyter.readthedocs.org/en/latest/install.html)
* ***Numpy***: pip install numpy - [Installation instructions](http://docs.scipy.org/doc/numpy-1.10.1/user/install.html)
* ***Matplotlib***: easy\_install matplotlib(Windows) or pip install matplotlib(MacOS) - [Installation instructions](https://github.com/ocervell/python_classes/blob/master)
* ***Pandas***: pip install pandas - [Installation instructions](http://pandas.pydata.org/pandas-docs/stable/install.html)
* ***Keras:***
* **Sklearn:**

**==> If you don't have any Python 2.7 installation:**

Follow ***either*** one of the following bullets. The first bullet provides a minimal installation of Python, allowing you to control your Python installation. The second bullet installs Python Anaconda, a fully-featured Python installation for scientific computing.

* ***Python*** [Installation Instructions](https://www.python.org/downloads/)
  + Once installed, add C:\Python27 and C:\Python27\Scripts to your %PATH.
  + Follow the steps in '==> If you have an existing Python 2.7 installation'.
* ***Python Anaconda*** (fully-featured Python installation for scientific computing): [Installation instructions](http://docs.continuum.io/anaconda/install) - Choose the **Python 2.7** installation.
  + ***Ipython notebook***: conda install jupyter
    - ***Windows:*** cd C:\Anaconda\Scripts and pip install boto3
    - ***MacOS X:*** cd ~/anaconda/scripts && pip install boto3

**Download class materials**

* **From Git**:
  + ***git***: [Installation instructions](https://git-scm.com/book/en/v2/Getting-Started-Installing-Git)
  + git clone https://github.com/nhanteh/Deep-Learning-Workshop

**Run IPython Notebook**

**Anaconda distribution:**

* Copy the IPython Notebook launcher from the menu to the desktop.
* Right click on the new launcher and change the Start in field by pasting the full path of the folder which will contain all the notebooks: /path/to/python\_classes.
* Double-click on the IPython Notebook desktop launcher (icon shows [IPy]) to start the Jupyter Notebook App.

**Command line:**

* cd /path/to/python\_classes
* ipython notebook (ipython/jupyter has to be in your PATH)