You may need other packages when doing assignments or project using your own methods, but the tools below are must for everyone. For operating system, linux and MacOS are recommended.

* Jupyter notebook (<http://jupyter.org/>)
* pandas 0.21 (<https://pandas.pydata.org/>) (note: do not install the latest version 0.23, which do not support pandas\_summary)
* numpy (<http://www.numpy.org/>)
* pandas\_summary (<https://github.com/mouradmourafiq/pandas-summary>)
* Tensorflow (<https://www.tensorflow.org/>)
* keras 2.0.8 (<https://keras.io/>) (note: do not use the latest version 2.20, which still has bug)
* scikit-learn (<http://scikit-learn.org/stable/>)
* matplotlib (<https://matplotlib.org/>)