Installing Anaconda Python

For data science, I recommend installing and using the Anaconda distribution of Python. This section details the installation of the Anaconda distribution of Python on Windows OS, Linux OS and MacOS. Anaconda is free (although the download is large which can take time) and can be installed on school or work computers where you don't have administrator access or the ability to install new programs. Anaconda comes bundled with about 600 packages pre-installed including **Pandas**, **NumPy**, **Matplotlib** and **Scikit-Learn**. These packages are very useful for data science.

Installing Anaconda Python on Windows OS

Follow the steps below to install the Anaconda distribution of Python on Windows.

Steps:

- Visit Anaconda.com/downloads
- 2. Select Windows and Download the **.exe** installer (Python 3.8 version)
- 3. Open and run the .exe installer
- 4. Follow the installation instructions
- 5. Open the **Anaconda Prompt** and run some code

Installing Anaconda on MacOS

This section details the installation of the Anaconda Distribution of Python on MacOS. Most versions of MacOS come pre-installed with legacy Python (Version 2.7). You can confirm the legacy version of Python is installed on MacOS by opening and running a command at the MacOS **terminal**. To open the MacOS terminal use <code>[command]+[Space Bar]</code> and type <code>terminal</code> in the Spotlight Search bar.

In the MacOS Terminal type (note: the dollar sign \$ is used to indicate the terminal prompt. The dollar sign \$ does not need to be typed): \$ python. You will most likely see Python version 2.7 is installed.

Follow the steps below to install the Anaconda distribution of Python on MacOS.

Steps:

- 1. Visit Anaconda.com/downloads
- 2. Select MacOS and Download the *.dmg* installer (Python 3.8 version)
- 3. Open the .dmg installer
- 4. Follow the installation instructions
- 5. Open a terminal and type python and run some code

Installing Anaconda on Linux

This section details the installation of the Anaconda distribution of Python on Linux, specifically Ubuntu 18.04, but the instructions should work for other Debian-based Linux distributions as well.

Ubuntu 18.04 comes pre-installed with Python (Version 3.8) and legacy Python (Version 2.7). You can confirm the legacy version of Python is installed by opening up a terminal.

Steps:

- 1. Visit Anaconda.com/downloads
- 2. Select Linux and Download the .sh installer (Python 3.8 version)
- 3. Verify the Data Integrity of the installer

```
$ sha256sum Anaconda3-2019.03-Linux-x86_64.sh

Output

45c851b7497cc14d5ca060064394569f724b67d9b5f98a926ed49b834a6bb73a Anaconda3-2019.03-Lin
```

4. Run the Anaconda Script

```
$ bash Anaconda3-2019.03-Linux-x86_64.sh
```

5. Selection options

```
Output
...
installation finished.

Do you wish the installer to prepend the Anaconda3 install location
to PATH in your /home/sammy/.bashrc ? [yes|no]
[no] >>>
```

It is recommended that you type yes to use the conda command.

6. Activate installation

```
$ source ~/.bashrc
```

7. Open a terminal and type python and run some code