# Software Required:

**Python and R**

**Installation procedure for R:**

1. **For Windows :**

* Download R from [this](https://cran.r-project.org/bin/windows/base/R-3.3.3-win.exe) link.
* Run the setup to install R.

**2. For Ubuntu:**

* Download R from [this](https://download1.rstudio.org/rstudio-1.0.136-i386.deb) link for ubuntu(32-bit).
* For 64 bit ubuntu, visit [this](https://download1.rstudio.org/rstudio-1.0.136-amd64.deb) link.
* Run the setup to install R.

**3. For Mac-os:**

* Download R from [here](https://download1.rstudio.org/RStudio-1.0.136.dmg).
* run the .pkg file using apple installer.

**Installation procedure for Python:**

**For Ubuntu:**

**Method 1 – Anaconda(Preferred):**

* Download Anaconda from the [this](https://www.continuum.io/downloads) link.
* Follow the installation instructions given in [this](https://docs.continuum.io/anaconda/install) link to setup python

**Method 2:**

1. **Install required dependencies:**

sudo apt-get install build-essential checkinstall

sudo apt-get install libreadline-gplv2-dev libncursesw5-dev libssl-dev libsqlite3-dev tk-dev libgdbm-dev libc6-dev libbz2-dev

1. **Then download using the following command:**

cd ~/Downloads/

wget https://www.python.org/ftp/python/2.7.12/Python-2.7.12.tgz

1. **Extract and go to directory:**

tar -xvf Python-2.7.12.tgz

cd Python-2.7.12

1. **Finally, install python:**

./configure

make

sudo checkinstall

**For Windows:**

**Method 1 - Anaconda(preferred):**

* Download the Anaconda from the [this](https://www.continuum.io/downloads) link.
* Run the setup

**Method 2:**

1. From <https://www.python.org/download/releases/2.7.6> download appropriate Python 2.7.6 Windows Installer. (If that link doesn't work, check <https://www.python.org/downloads/>)
2. Run the file
3. Select install for all users or install just for me, click Next
4. You'll see it installs under the C:\Python27 folder, click Next
5. Click Next again for the 'Customize Python' step
6. Click Finish
7. Open Control Panel, then System
8. Click 'Advanced system settings' on the left
9. Click the 'Environment Variables' button
10. Under 'System variables' click the variable called 'Path' then the 'Edit...' button. (This will set it for all users, you could instead choose to edit the User variables to just set python as a command prompt command for the current user)
11. Without deleting any other text, add C:\Python27; (include the semi-colon) to the beginning of the 'Variable value' and click OK.
12. Click OK on the 'Environment Variables' window.
13. Open a new command prompt window type python, you will have python running in the command prompt. Note: command prompt windows open prior to setting the Environment Variable will not have the python command available.

**For Mac-os:**

**Method 1 – Anaconda (Preferred):**

Visit [this](https://docs.continuum.io/anaconda/install) link for instructions .

**Method 2:**

Visit [this](http://docs.python-guide.org/en/latest/starting/install/osx/) link for instructions .

**Packages Required for python :**

1. **pandas** - install by using the command "pip install pandas" in command prompt
2. **matplotlib** - install by using the command "pip install matplotlib"
3. **numpy** - install by using the command "pip install numpy"
4. **NLTK** - install by using the command "pip install nltk"

NLTK requires additional files to be downloaded before execution.

After installing NLTK, in a python prompt, enter:

import nltk

nltk.download()

This should open up a GUI package installer for NLTK. Go to all packages and install the following packages:

1. punkt
2. vader\_lexicon
3. **Re** – install by using the command “pip install re”
4. **PyPDF2** – install by using the command “pip install PyPDF2”
5. **Beautiful Soup -** install by using the command “pip install BeautifulSoup”

**Packages Required for R:**

1. **caTools -** Install using install.packages(‘caTools’)
2. **randomForest –** Install using install.packages(‘randomForest’)