

Customer Text Analytics Workshop - Setup Instructions

Introduction

For the hands-on portion of the workshop we will use a Jupyter notebook.

Installation Instructions

Step 1 - Install Python v 3.6 (or greater)

Download the appropriate installer from <https://www.anaconda.com/distribution/> (choose all default settings)

Step 2 - Install Virtual Environment

Open “Anaconda Prompt” (or terminal for MacOS) and type in

```
pip install --upgrade pip
```

```
pip install virtualenv
```

Step 3 - Setup Environment Folder

In “Anaconda Prompt” (or terminal for MacOS), go to folder location where you want workshop files to be in (you can use the `cd <folder name>` to move down a folder, and `cd ..` to move back up to the previous folder)

Next, type `virtualenv <folder_name_of_your_choice>` to create a python virtual environment. (Hint: choose a folder name with no spaces to make things easier)

Step 4 - Add Workshop Files

Add the following files to the folder location where you want workshop files to be in (note: NOT the folder of the virtual environment you just created):

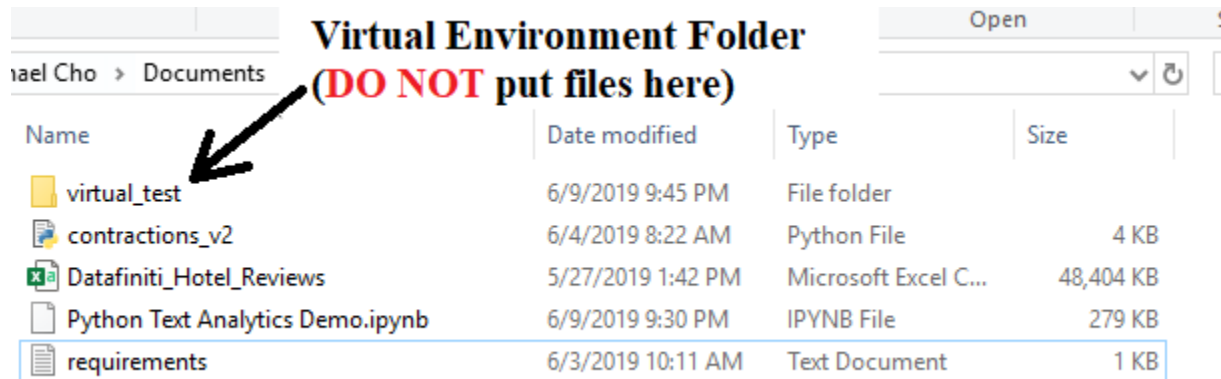
- `contractions_v2.py`
- `Datafiniti_Hotel_Reviews.csv`

- Python Text Analytics Demo.ipynb
- requirements.txt

The jupyter notebook and all files that we will use can be downloaded from this github link:

https://github.com/michaelcho29/text_analytics_workshop

If done correctly, the folder structure should look something similar to below:



Name	Date modified	Type	Size
virtual_test	6/9/2019 9:45 PM	File folder	
contractions_v2	6/4/2019 8:22 AM	Python File	4 KB
Datafiniti_Hotel_Reviews	5/27/2019 1:42 PM	Microsoft Excel C...	48,404 KB
Python Text Analytics Demo.ipynb	6/9/2019 9:30 PM	IPYNB File	279 KB
requirements	6/3/2019 10:11 AM	Text Document	1 KB

Step 5 - Activate Virtual Environment

To activate virtual python environment, type in

```
<folder_name_of_your_choice>\scripts\activate
```

For MacOS, type in

```
source <folder_name_of_your_choice>/bin/activate
```

Step 6 - Install Libraries

Next, to install all libraries needed for the workshop, type in

```
pip install -r requirements.txt
```

Step 7 - Install Jupyter Kernel

Next, we need to add a Jupyter kernel to our virtual environment. To do this, type in the following

```
ipython kernel install --user --name=<kernel name of your choosing>
```

Step 8 - Start Notebook

To start the notebook, first install Jupyter Notebook

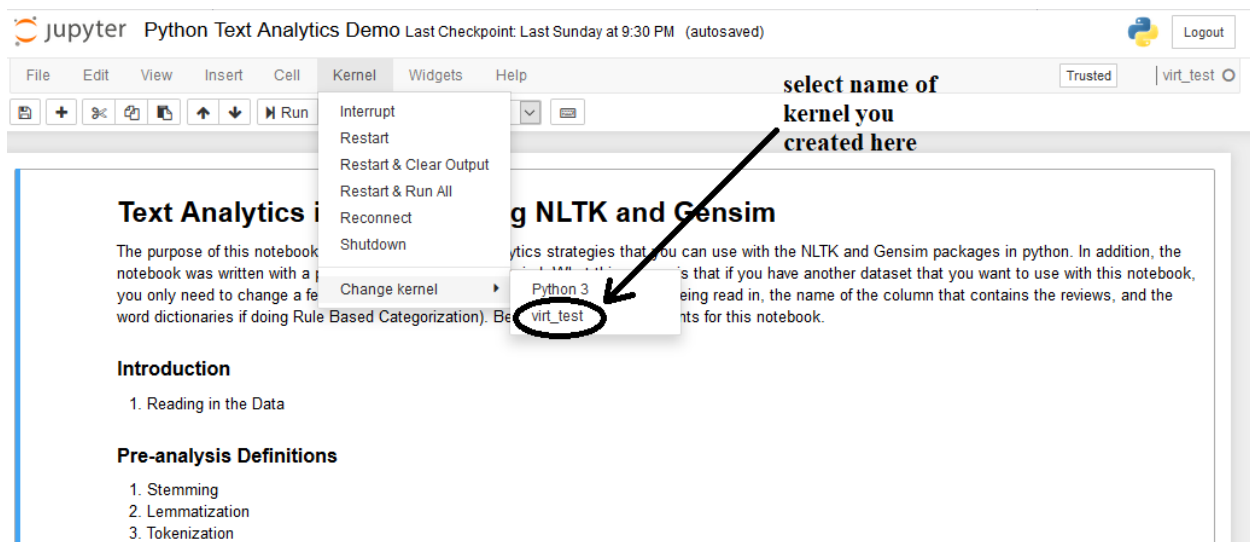
```
pip install jupyter
```

Once the installation completes, type in

```
jupyter notebook
```

This should open a browser window.

Navigate to the notebook in the browser. Select the kernel menu item and select the kernel you created in the previous step.



You can execute the commands by clicking Shift+Enter.

For more details, please refer to: <https://jupyter.readthedocs.io/en/latest/install.html>

Git Repo

All files and dataset are available at https://github.com/michaelcho29/text_analytics_workshop