Data Science using Python– 2 Days

Lab Preparation Guide

Contents

1. System requirement

Participants should bring their laptop (preferably Windows 7 or higher/ Mac OS installed). 64-bit hardware is preferable.

2. Install Python Distribution

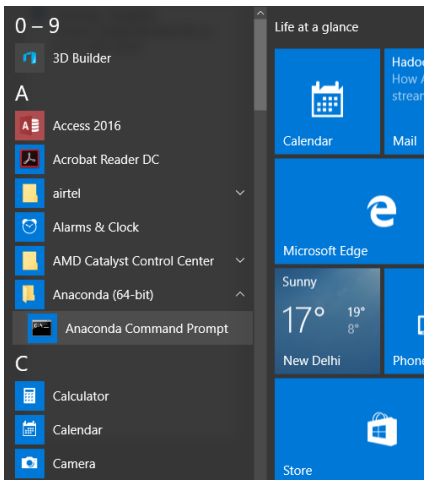
Download Anaconda distribution for **Python 3.5**. The following link has distribution for Windows and Mac OS.

https://www.continuum.io/downloads

Please install 32-bit or 64-bit distribution as per your OS (Windows or MAC). 64 bit is preferable.

3. Install Additional Components

From Programs Menu, select ***Anaconda Command Prompt***



- ## Install seaborn Library

At the prompt type the following commands

```
pip install seaborn
```

```
C:\Users\manaranjan\Anaconda3>pip install seaborn
You are using pip version 7.0.3, however version 7.1.2 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.
Collecting seaborn
  Downloading seaborn-0.6.0.tar.gz (145kB)
    100% |################################| 147kB 370kB/s
Installing collected packages: seaborn
  Running setup.py install for seaborn
Successfully installed seaborn-0.6.0

C:\Users\manaranjan\Anaconda3>
```

- ## Install tweepy Library

At the prompt type the following commands

```
pip install tweepy
```

4. Download Content from Github

(Skip this step, if you have received the zip file Python_DS_2days-master.zip)

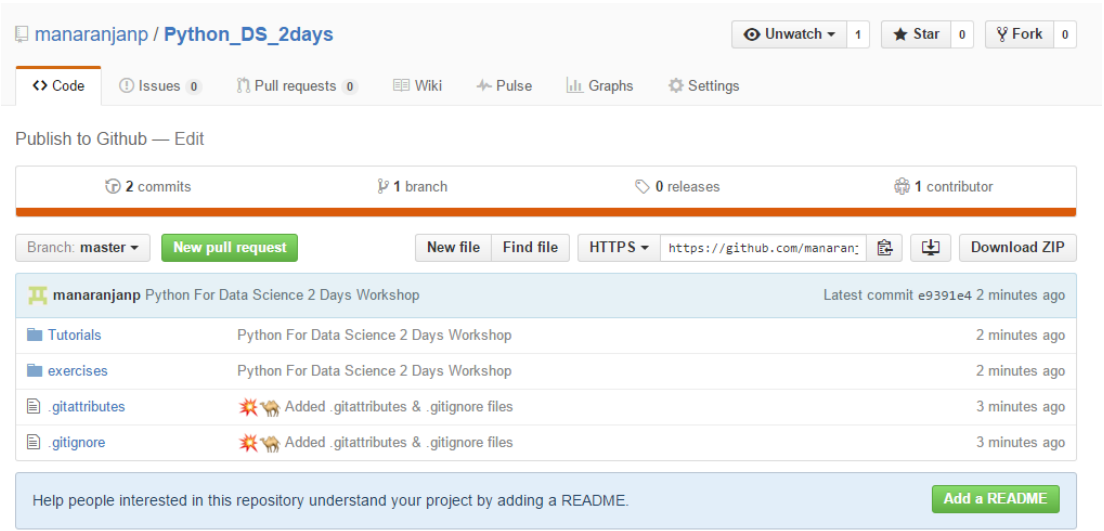
The code and data is sent to the participants in email. If not sent, please download the content from the following link.

If you do not have an account, please open an account in github.com and login to the website. (The account creation is free.)

https://github.com/

After login to your account, go to

https://github.com/manaranjanp/Python_DS_2days



Click on the **Download ZIP** link and download all the code to your computer.

5. Unzip the code and data

Once you have the content (Either via email or via github download), please follow the steps below.

Unzip the file **Python_DS_2days-master.zip** to a directory on your computer.

For example, **C:\Data Science\Python (You can create your own directory)**

6. Configure IPython Notebook

Open Anaconda Command Prompt as shown in section 2.

Change your directory to the directory where you have unzipped the github contents. For example **C:\Data Science\Python**

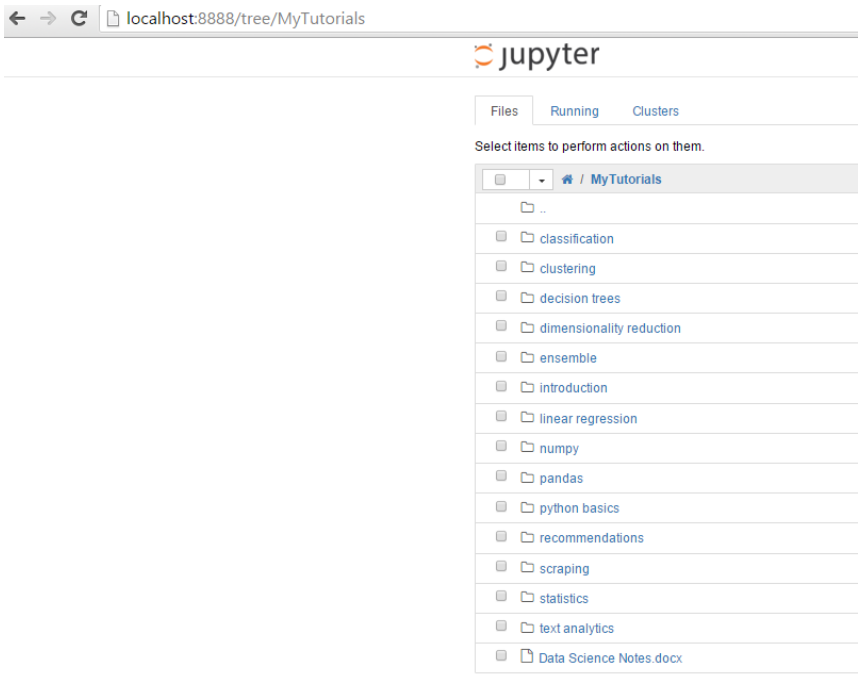
And then type the following command at the prompt

ipython notebook

```
G:\Data Science\Python\MyTutorials>cd ..

G:\Data Science\Python>ipython notebook
[I 12:45:30.439 NotebookApp] Using MathJax from CDN: https://cdn.mathjax.org/mathjax/latest/MathJax.js
[I 12:45:30.604 NotebookApp] Serving notebooks from local directory: G:\Data Science\Python
[I 12:45:30.607 NotebookApp] 0 active kernels
[I 12:45:30.608 NotebookApp] The IPython Notebook is running at: http://localhost:8888/
[I 12:45:30.618 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[I 12:45:44.676 NotebookApp] Kernel started: 3c5412cc-900f-43b5-92ab-81e61d5e3ad9
```

It should automatically open a link in your browser and you can see the directory structure in the browser.



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7. Test Python Environment

On the ipython notebook browser, browse to the directory **Python_DS_2days**

Click on the file check_env_1.0.

It should open the notebook in another browser. On the menu, select **Cell -> Run All**

It should show the following graph. Then your setup is working fine and ready for the workhop.

Congratulations!