

Laptop Prep for “Hands-on: Introduction to Machine Learning for Data Science with Python”

Overview

Laptop preparation for the class consists of four steps, with detailed instructions below:

1. Download course files from GitHub
2. Installation of Anaconda Python
3. Package downloads
4. Verify installation

NOTE – When using a work laptop, please keep the following in mind:

- Administrator permission may be required to complete laptop prep.
- It is often necessary to disable anti-virus software to allow for the installation. As such, disabling any anti-virus is recommended before laptop prep.
- Corporate proxy servers and firewalls can block the installation. Be sure to consult your IT department as needed.
- Lastly, installing the latest version of Anaconda Python is recommended – even if you have Python already installed.
- If you’re familiar with Python, do not use pip to install packages – use the conda utility as detailed below.

The GitHub repository with all required course files is located here:

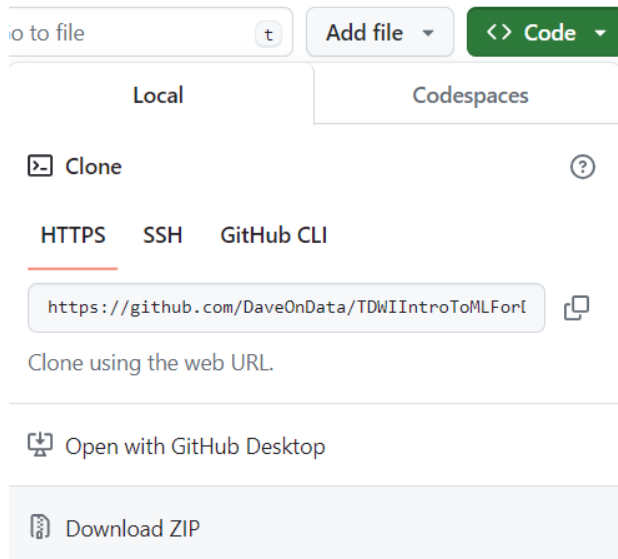
- <https://github.com/DaveOnData/TDWIIntroToMLForDSWithPython>

Hardware Requirements

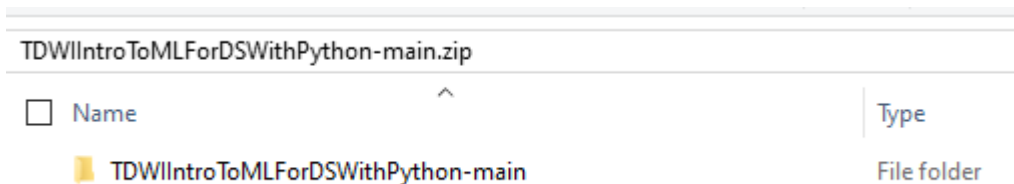
1. Windows or Mac OS X preferred (instructors have no experience with Linux)
2. 64-bit operating system
3. 8GB of RAM, 16GB preferred
4. 5GB of free drive space

Step 1 - Download the files from GitHub

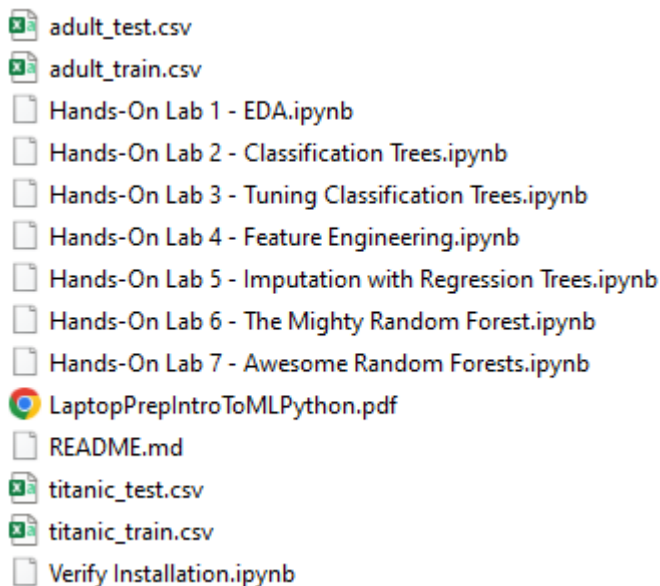
1. Within the GitHub repository page, click on the “Code” button and select “Download ZIP”:



2. Copy the file folder within the downloaded ZIP to a well-known location on your laptop (e.g., the Desktop):



3. Open the file folder. You should see the following files:



Step 2 – Anaconda Python Installation

1. Open your browser and navigate to: <https://www.anaconda.com/products/distribution>
2. Click “Skip registration.”

Provide email to download Distribution

Email Address:



Agree to receive communication from Anaconda regarding relevant content, products, and services. I understand that I can revoke this consent [here](#) at any time.


By continuing, I agree to Anaconda's [Privacy Policy](#) and [Terms of Service](#).

Submit >

[Skip registration](#)

3. Click the Download button.

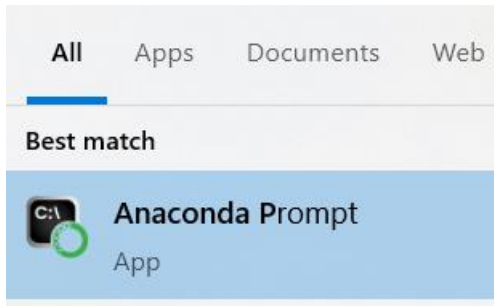
Anaconda Installers

 Download

4. When the installer has downloaded, start the installer and follow the instructions (accepting defaults) to complete the installation.

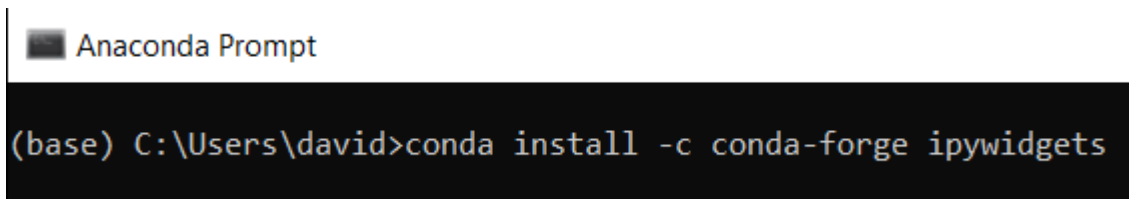
Step 3 – Package Downloads

1. NOTE – Some packages are used across multiple TDWI classes. If you are taking multiple classes as part of the same training (e.g., conference or bootcamp), you only need to install the packages once.
2. With Anaconda Python installed, start the Anaconda Prompt:

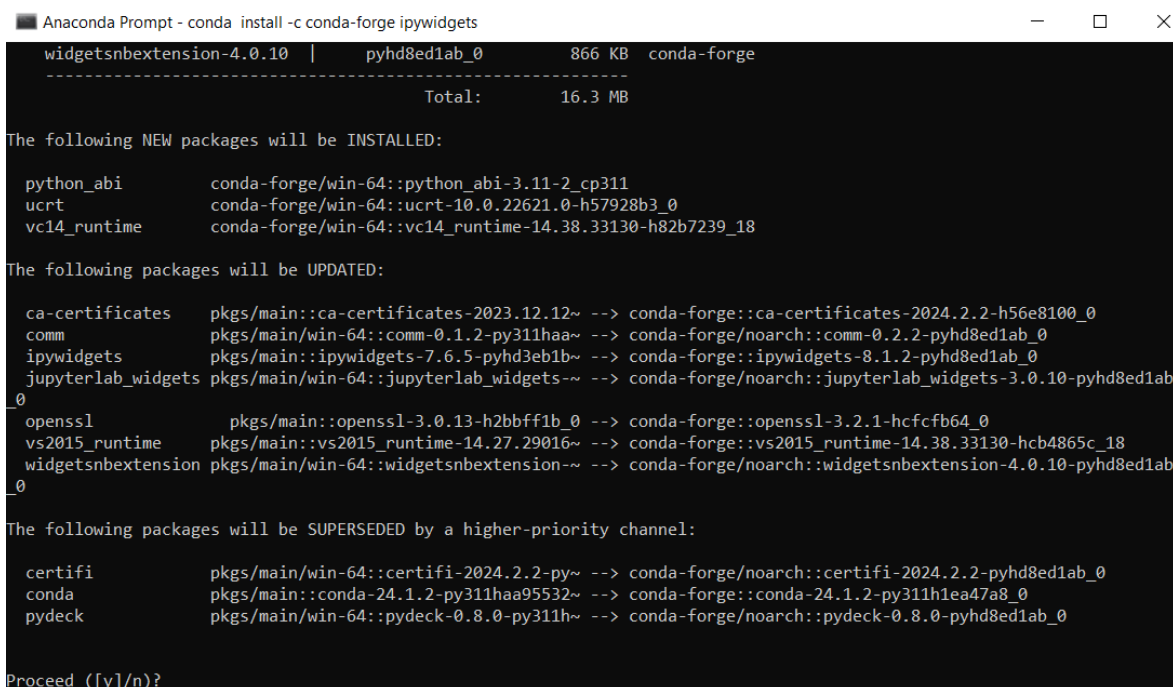


NOTE – On a Mac, use the Terminal. The commands below are the same for Mac.

3. At the command prompt type the following without quotes and hit <enter>:
 - a. “conda install -c conda-forge ipywidgets”



4. If prompted, hit the “y” key and <enter> to proceed:



- When the installation is completed, you should see something like the following:

```
Proceed ([y]/n)? y

Downloading and Extracting Packages:

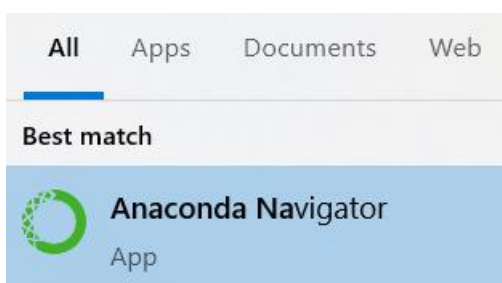
Preparing transaction: done
Verifying transaction: done
Executing transaction: done

(base) C:\Users\david>_
```

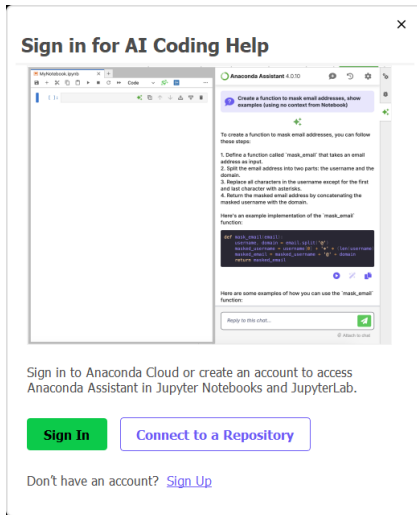
- Repeat the above process at the command prompt, but now type the following without quotes and hit <enter>:
 - “conda install -c conda-forge ydata-profiling”
- Repeat the above process at the command prompt, but now type the following without quotes and hit <enter>:
 - “conda install -c conda-forge plotnine”

Step 4 – Verify Installation

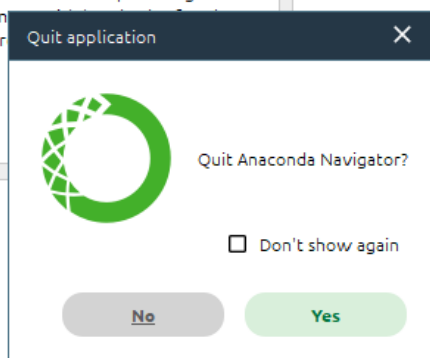
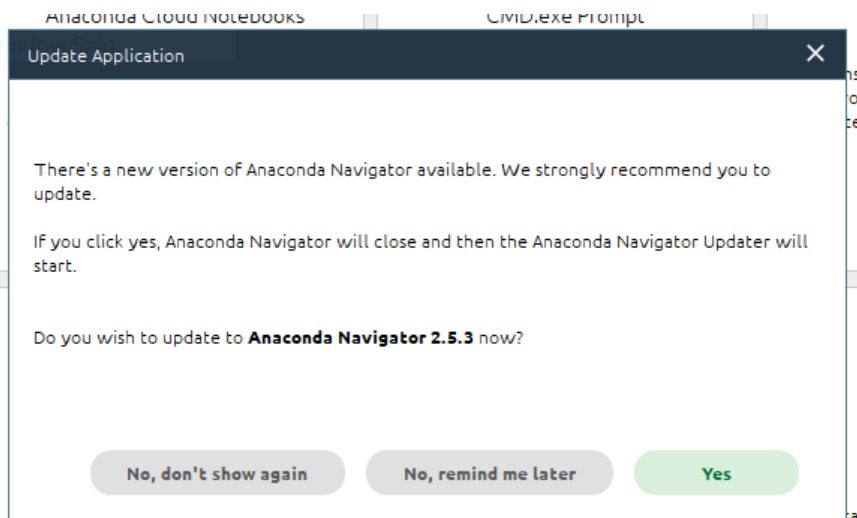
- With Anaconda Python installed, start the Anaconda Navigator application:

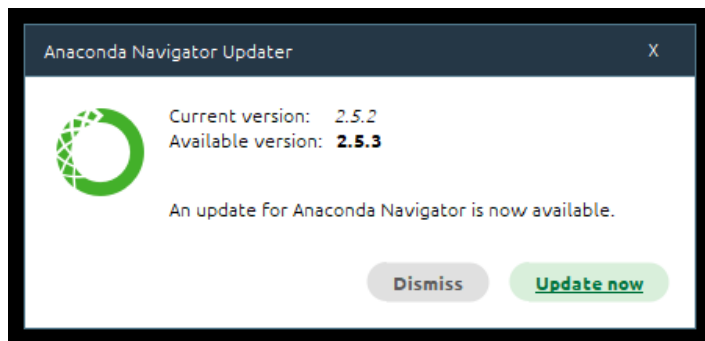


2. Close the AI Coding Help dialog:

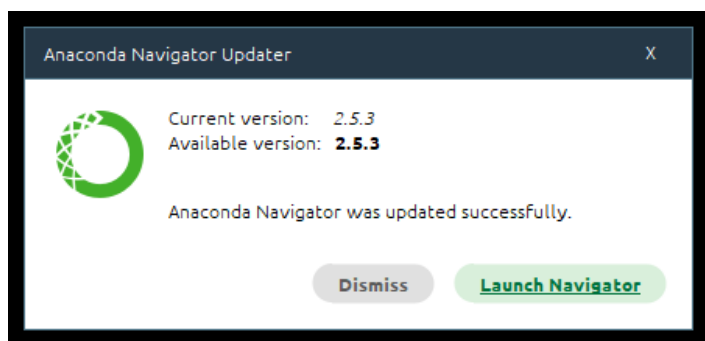


3. You may be prompted to upgrade Anaconda Navigator. Follow the dialogs to do so (your dialogs may not look exactly these):

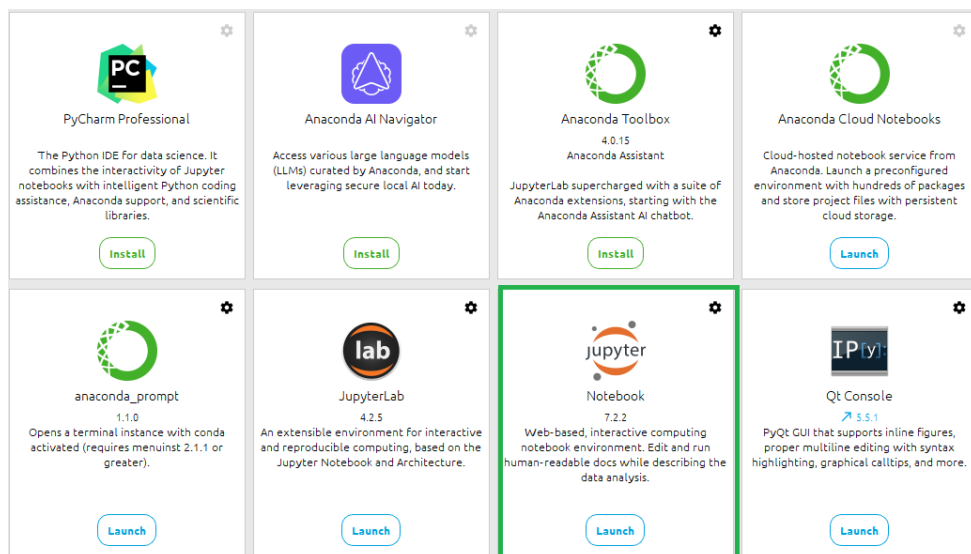




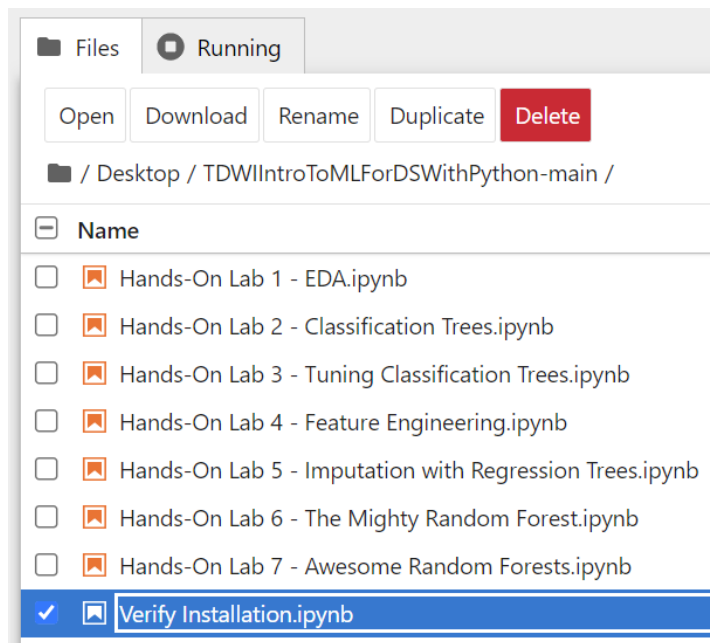
4. If needed, relaunch Anaconda Navigator:



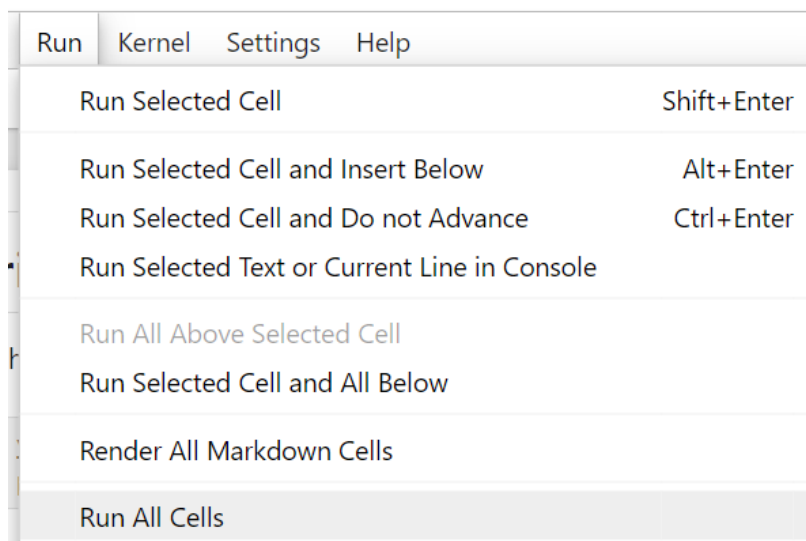
5. NOTE – Your Anaconda Navigator window might not look exactly like the following. Within Anaconda Navigator, launch Jupyter Notebook:



6. Within the Jupyter browser, navigate to where you copied the course file folder.
7. Double-click on the “Verify Installation.ipynb” entry:



8. Run all the cells in the notebook:



9. Your output should look like the following, with no errors.

Verify Installation

Run the following code cell you should see no errors as a result of the running the code.

```
[1]: from ydata_profiling import ProfileReport
      from plotnine import ggplot
```


10. Close Anaconda Navigator and quit Jupyter Notebook when prompted.

Congratulations! You are now ready for the class!