Laptop Prep for "Hands-on: Machine Learning Made Easy" with Python

Overview

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

1. Download course files from GitHub
2. Installation of Anaconda Python
3. 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 version of Anaconda Python listed below is highly recommended, even if you have Python already installed. The course has been tested only with the version listed below.

Because of the above, many attendees find using their personal laptop for the course is an easier option.

Hardware Requirements

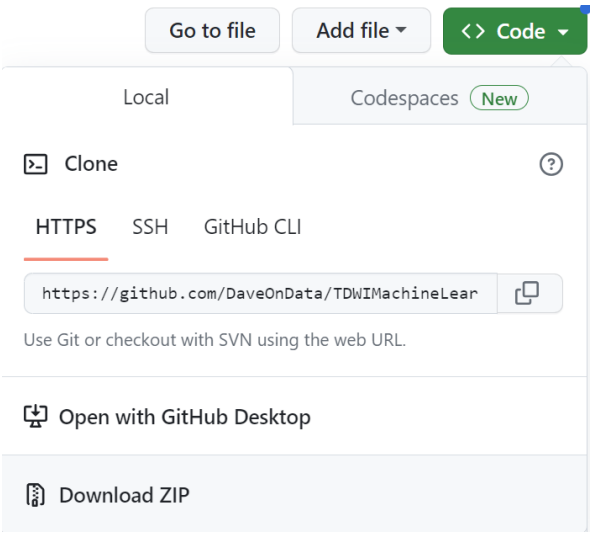
1. Windows or Mac OS X preferred (instructors have no experience with Linux)
2. 64-bit operating system
3. 8GB of RAM, 16GB preferred
4. 5GB of free drive space

Step 1 - Download the course files from GitHub

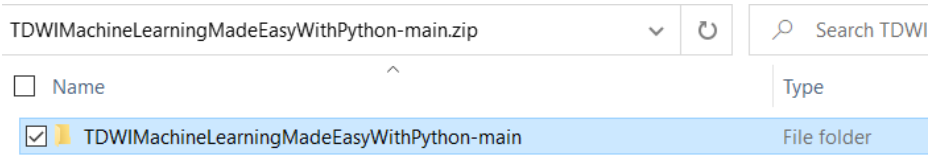
The GitHub repository with all required course files is located here:

1. The GitHub repository with all required course files is located here:
    a. https://github.com/DaveOnData/TDWIMachineLearningMadeEasyWithPython

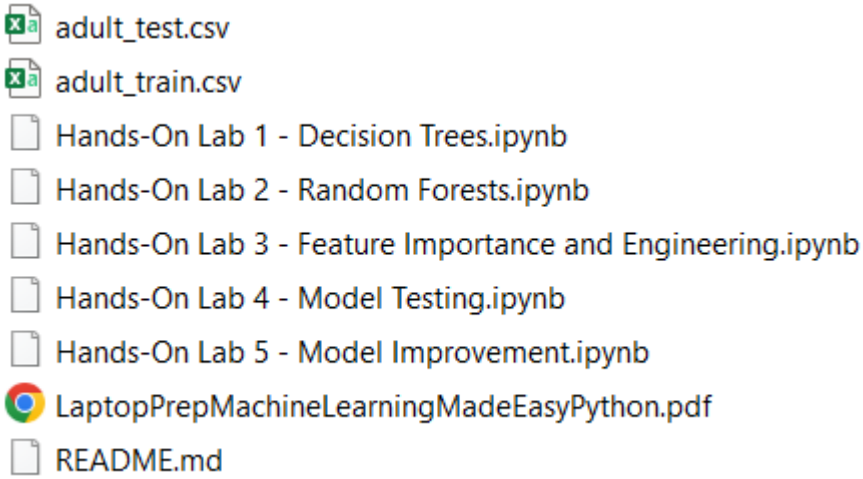
2. Within the GitHub repository page, click on the “Code” button and select “Download ZIP”:



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



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



Step 2 – Anaconda Python Installation

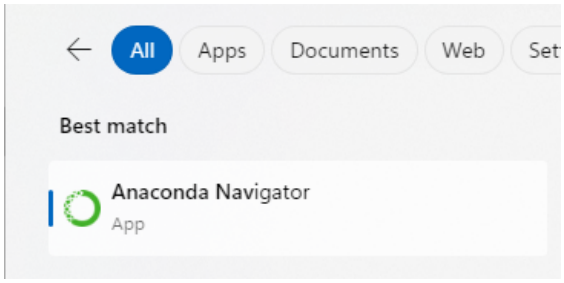
1. Click the link below for your operating system to download the Anaconda installer:
   - Windows: https://repo.anaconda.com/archive/Anaconda3-2024.10-1-Windows-x86_64.exe
   - Mac (Apple CPU): https://repo.anaconda.com/archive/Anaconda3-2024.10-1-MacOSX-arm64.pkg
   - Mac (Intel CPU): https://repo.anaconda.com/archive/Anaconda3-2024.10-1-MacOSX-x86_64.pkg

   NOTE – The above versions are not the latest Anaconda distribution because of versioning conflicts with libraries used in the ML Bootcamp. The course has been tested with this version only. Also, if you installed the 2024.10 version of Anaconda as part of the Python Quick Start you do not need to install it again.

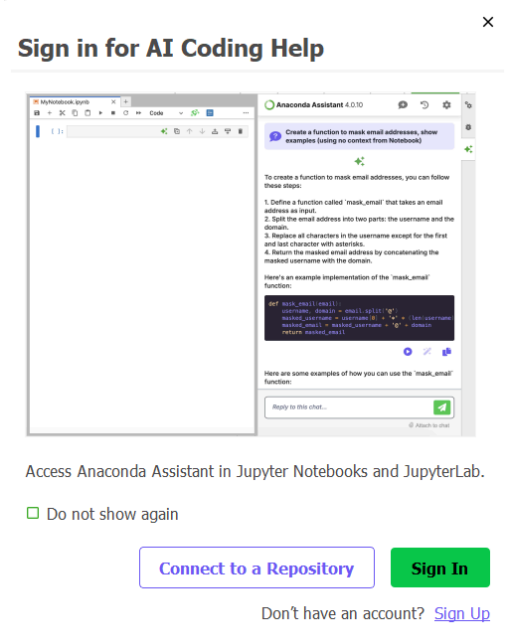
2. When the installer has downloaded, start the installer and follow the instructions (accepting defaults) to complete the installation.

Step 3 – Verify Installation

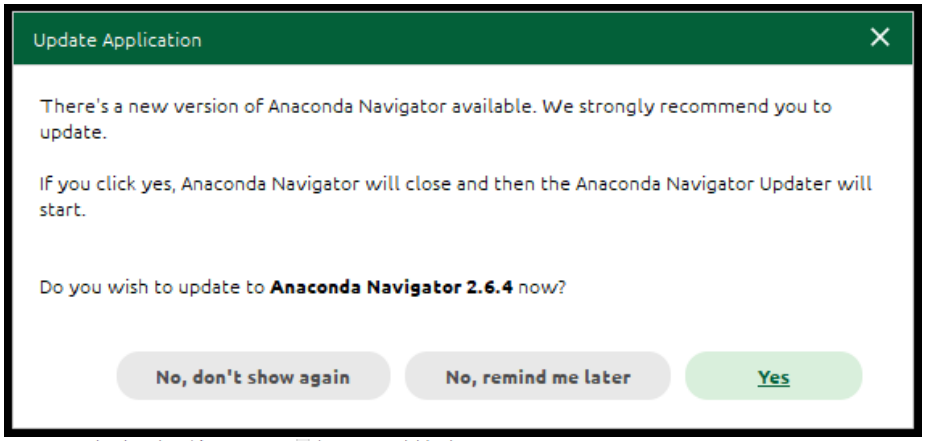
1. With Anaconda Python installed, start the Anaconda Navigator application:

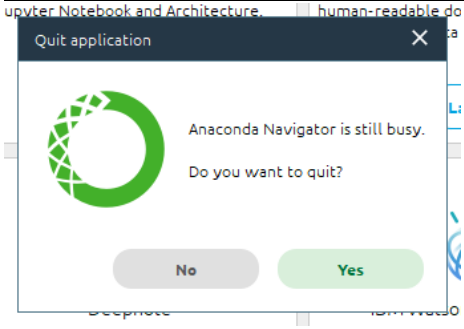


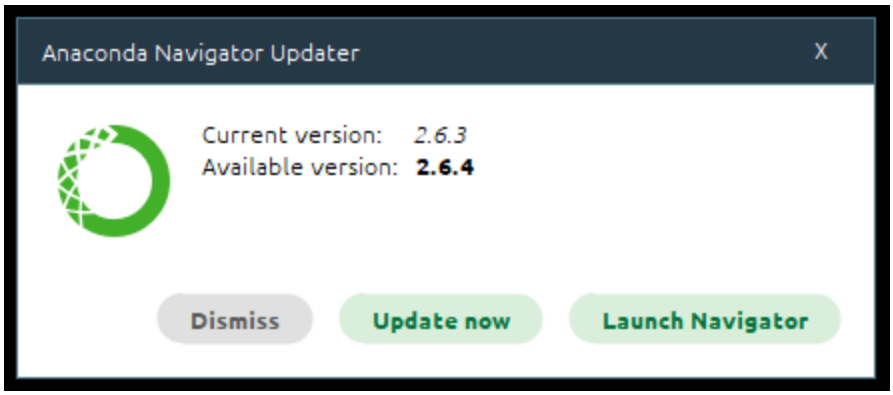
2. If you see the following dialog, close it (no need to sign in):



3. You may be prompted to upgrade Anaconda Navigator. Follow the dialogs (i.e., click “Yes” and “Update now”) to do so. It may take a bit of time for this process to complete.

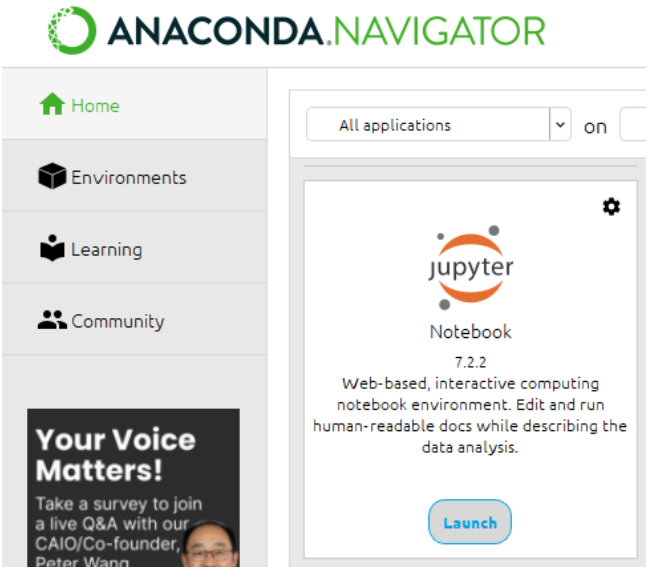




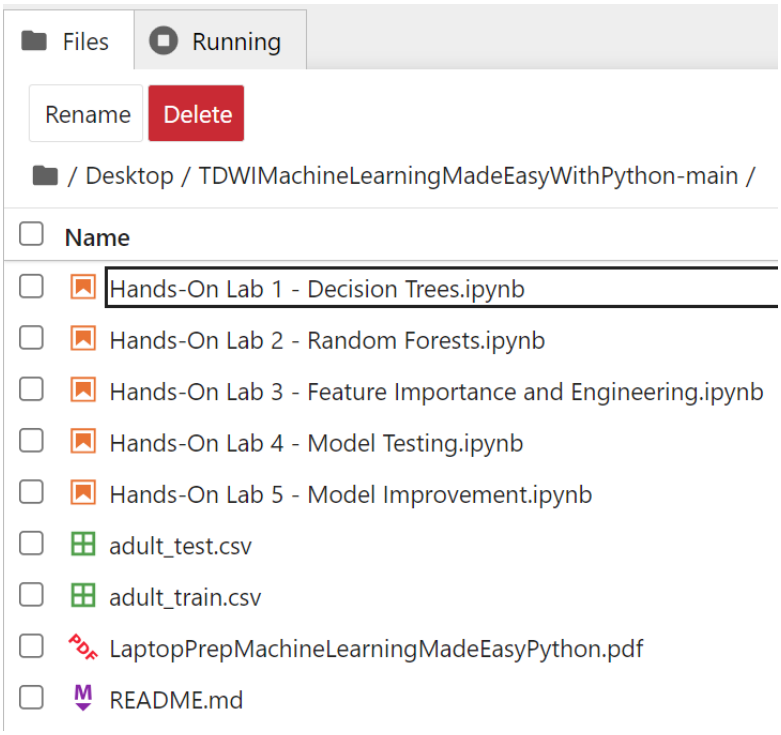


4. If needed, relaunch Anaconda Navigator.

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



6. Within the Jupyter browser, navigate to where you copied the course file folder:



Congratulations! You are now ready for the class!