Python Installation Manual for Intelligent Systems Lab (CS1763)

Python Download and Installation Instructions

Python: Version 3.7.4

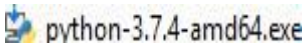
The Python download requires about 25 Mb of disk space; keep it on your machine, in case you need to re-install Python. When installed, Python requires about an additional 90 Mb of disk space.

Downloading

1. Click Python Download.
2. Click the **Windows** link (two lines below the **Download Python 3.7.4** button).
3. Click on the **Download Windows x86-64 executable installer** link under the top-left **Stable Releases**. Click the **Save File** button.

   The file named **python-3.7.4-amd64.exe** should start downloading into your standard download folder. This file is about 30 Mb.

   The file should appear as:

4. Move this file to a more permanent location, so that you can install Python (and reinstall it easily later, if necessary).
5. Start the Installing instructions directly below.

Installing

1. Double-click the icon labeling the file **python-3.7.4-amd64.exe**.
2. A **Python 3.7.4 (64-bit) Setup** pop-up window will appear.
3. Highlight the **Install Now** (or **Upgrade Now**) message, and then click it.
4. When run, a **User Account Control** pop-up window may appear on your screen. I could not capture its image, but it asks, **Do you want to allow this app to make changes to your device**.
5. Click the **Yes** button.

   A new **Python 3.7.4 (64-bit) Setup** pop-up window will appear with a **Setup Progress** message and a progress bar.

During installation, it will show the various components it is installing and move the progress bar towards completion. Soon, a new **Python 3.7.4 (64-bit) Setup** pop-up window will appear with a "**Setup was successfully"** message.

Click the **Close** button.
Python should now be installed.

Importing different packages in Python3.7 for Intelligent Systems Lab (CS173)

1. #Import numpy
   $ pip install numpy

2. #Import matplotlib
   $ python -m pip install -U matplotlib

3. #Import pandas
   $ pip install pandas

4. #Import mean_squared_error
   $ pip install sklearn-pandas
   $ from sklearn.metrics import mean_squared_error

5. #Import Linear Regressionmodel
   $ pip3 install py4linear-regression

6. #Import Polynomial Features
   $ pip3 install py-polynomial

7. #Import pipeline
   $ pip install pipelines

8. #Import svm
   $ pip install svm

9. #Import KMeans
   $ pip install kmeans

10. #Import seaborn
    $ pip install kmeans

11. #import gridplot
    $ pip install spacegrids

12. #import confusion_matrix
    $ conda install pandas scikit-learn scipy
    $ pip install pandas_confusion