Johnson & Johnson Snow Camp
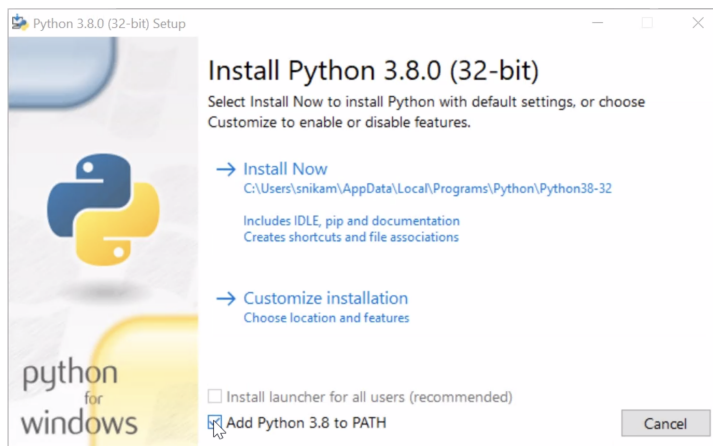# Hands-on Lab for Snowpark Python

1. Install **Python 3.8** (Snowpark requires use of Python 3.8 - other versions will not work. Skip if you already have Python 3.8 installed.)
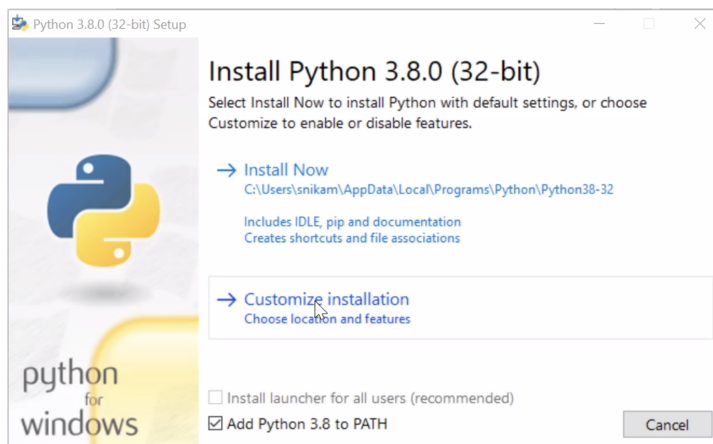
    Windows: https://www.python.org/ftp/python/3.8.10/python-3.8.10-amd64.exe

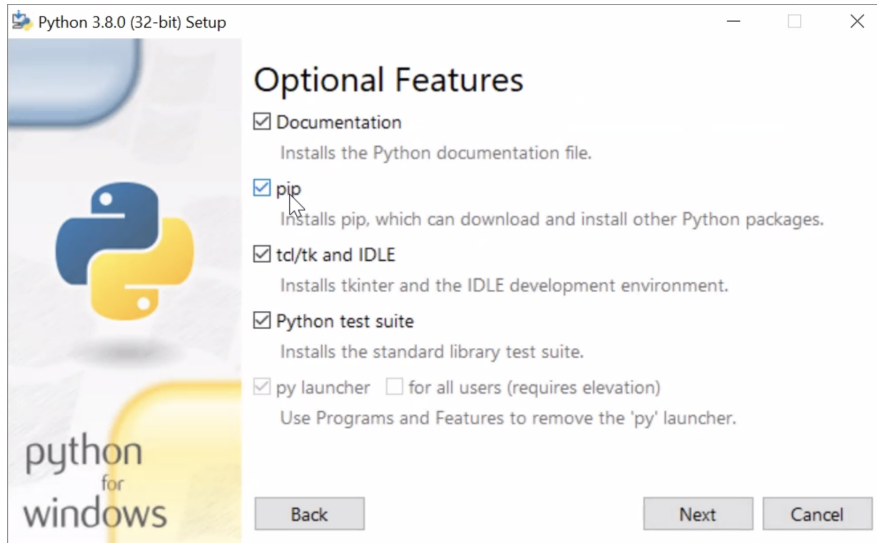   MacOs: https://www.python.org/ftp/python/3.8.10/python-3.8.10-macos11.pkg

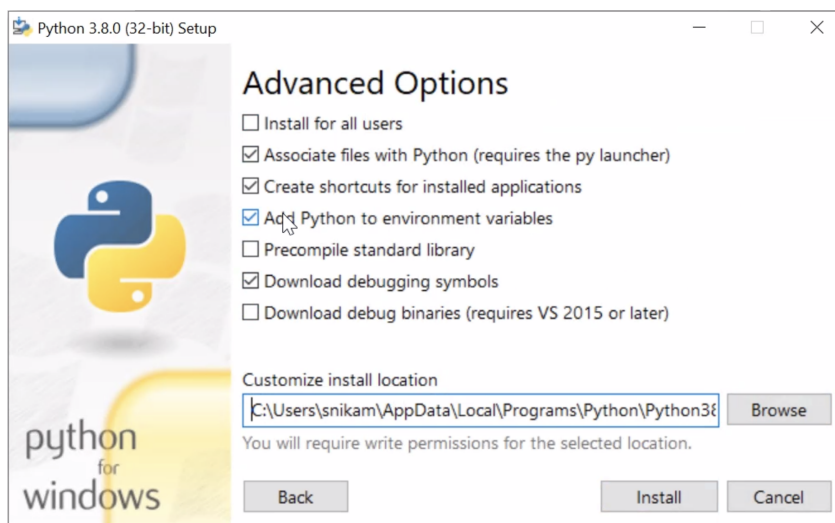   ● Make sure 'Add Python 3.8 to PATH is selected'

    ● Click 'Customize installation'

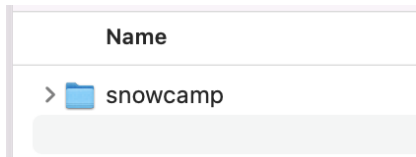- Make sure 'pip' is selected, then click 'Next'

- Make sure 'Add Python to environment variables' is selected
- Be sure to copy / note the install location
- Click 'Install'

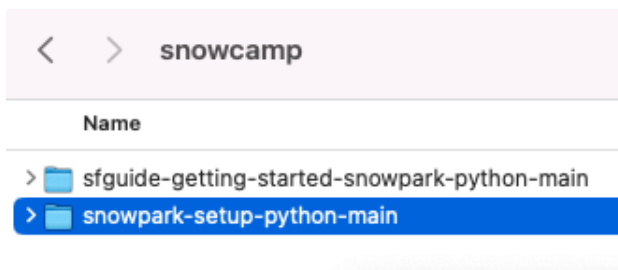- Once installed, open Command Prompt, type 'python -V' and press enter to confirm that python is installed

```
$ python -V
## Output: Python 3.8.0 (any version for 3.8.X)
```

2. In your mac/windows user directory, create a new folder named "**snowcamp**" (be sure to note/copy the folder path)

3. Download the Snowpark Python Setup repo and unzip in the **snowcamp** folder created in step 2:

   https://github.com/sfc-gh-pjain/snowpark-setup-python/archive/refs/heads/main.zip

4. Download the Lab source code and unzip in the **snowcamp** folder that was created in step 2:

   https://github.com/Snowflake-Labs/sfguide-getting-started-snowpark-python/archive/refs/heads/main.zip

   The end result should resemble this:

5. Open the file **config.py** (located in sfguide-getting-started-snowpark-python-main > **customer-churn-prediction**) in a text editor (e.g. TexEdit or Notepad). Replace '[X]' with your assigned ID #, and replace the **account url** and **password** with the password provided at the start of the session. Be sure to save before closing.

   snowflake_conn_prop = {

   "account": "********",

   "user": "user[X]",

   "password": "*******",

   "role": "dba[X]",

   "database": "citibike[X]",

   "schema": "public",

   "warehouse": "compute_wh[X]",

   }

6. Open a new Command Prompt / Terminal and enter the following commands, one by one (this should take ~7-8 minutes)

   Windows:

   $ cd snowcamp

   $ python -m venv snowpark

   $.\snowpark\Scripts\activate

   $ pip install -r snowpark-setup-python-main\requirements.txt

   $ python -m ipykernel install --user --name=snowpark

   $ jupyter notebook

   MacOs:

   $ cd snowcamp

   $ python -m venv snowpark

   $ source snowpark/bin/activate

   $ pip install -r snowpark-setup-python-main/requirements.txt

   $ python -m ipykernel install --user --name=snowpark

   $ jupyter notebook

All set!

Note** If you have more than one version of Python, then just type "where Python" in CMD and use the complete path to create the virtual environment.

For example :

C:\Users\[**Your logged in User**]\AppData\Local\Programs\Python\Python38-32\python.exe -m venv snowpark