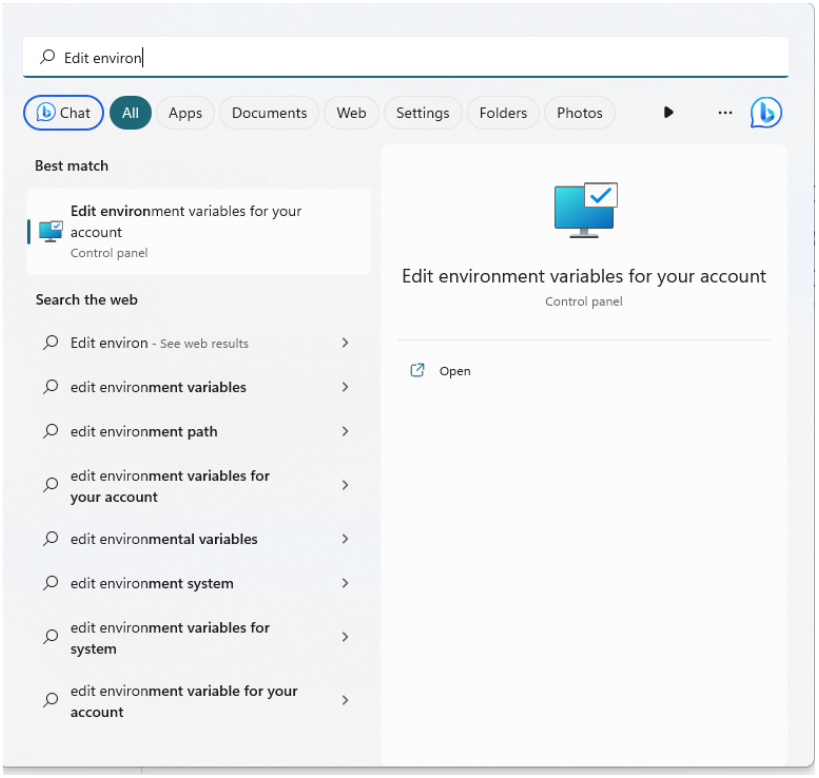
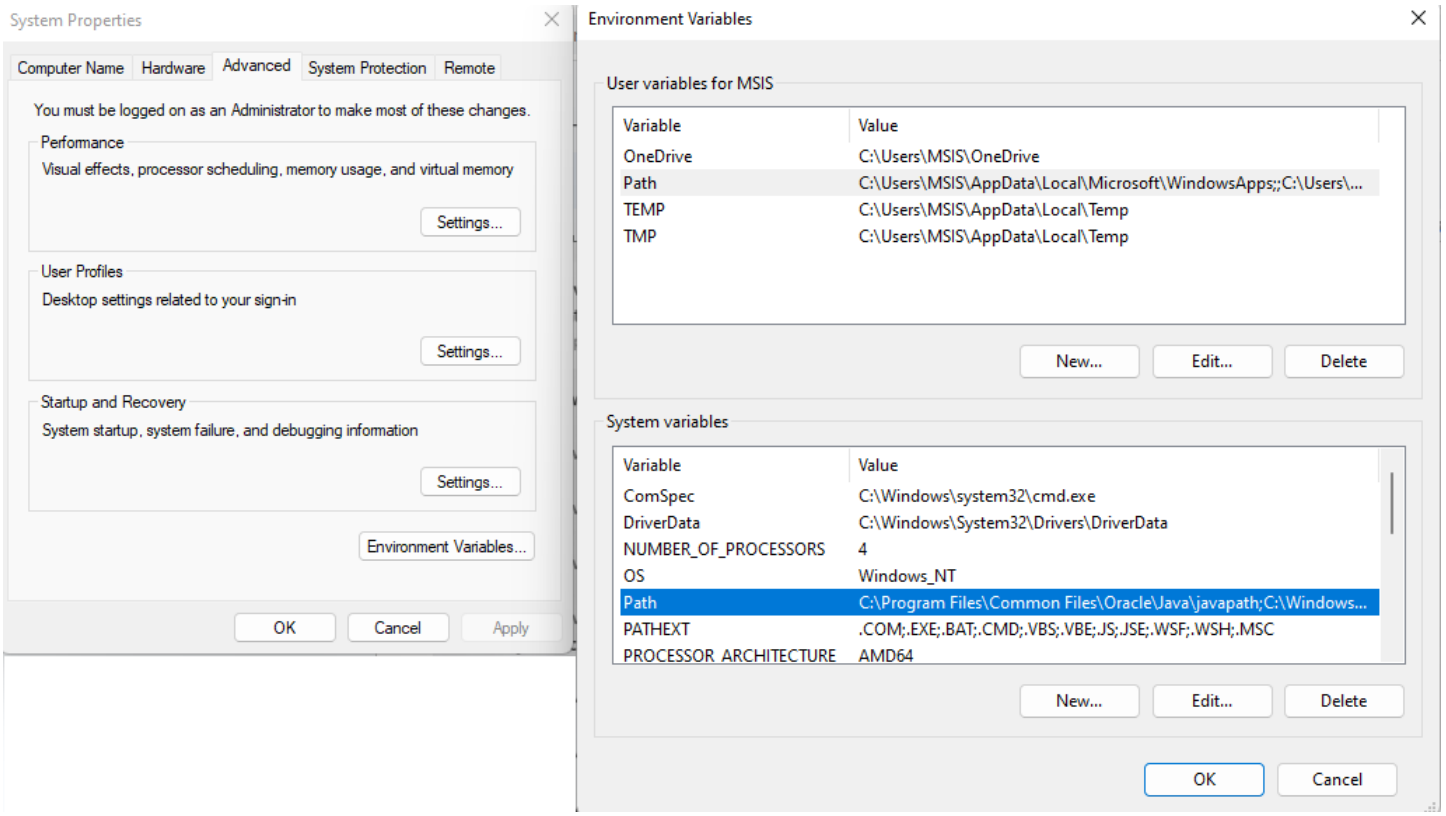
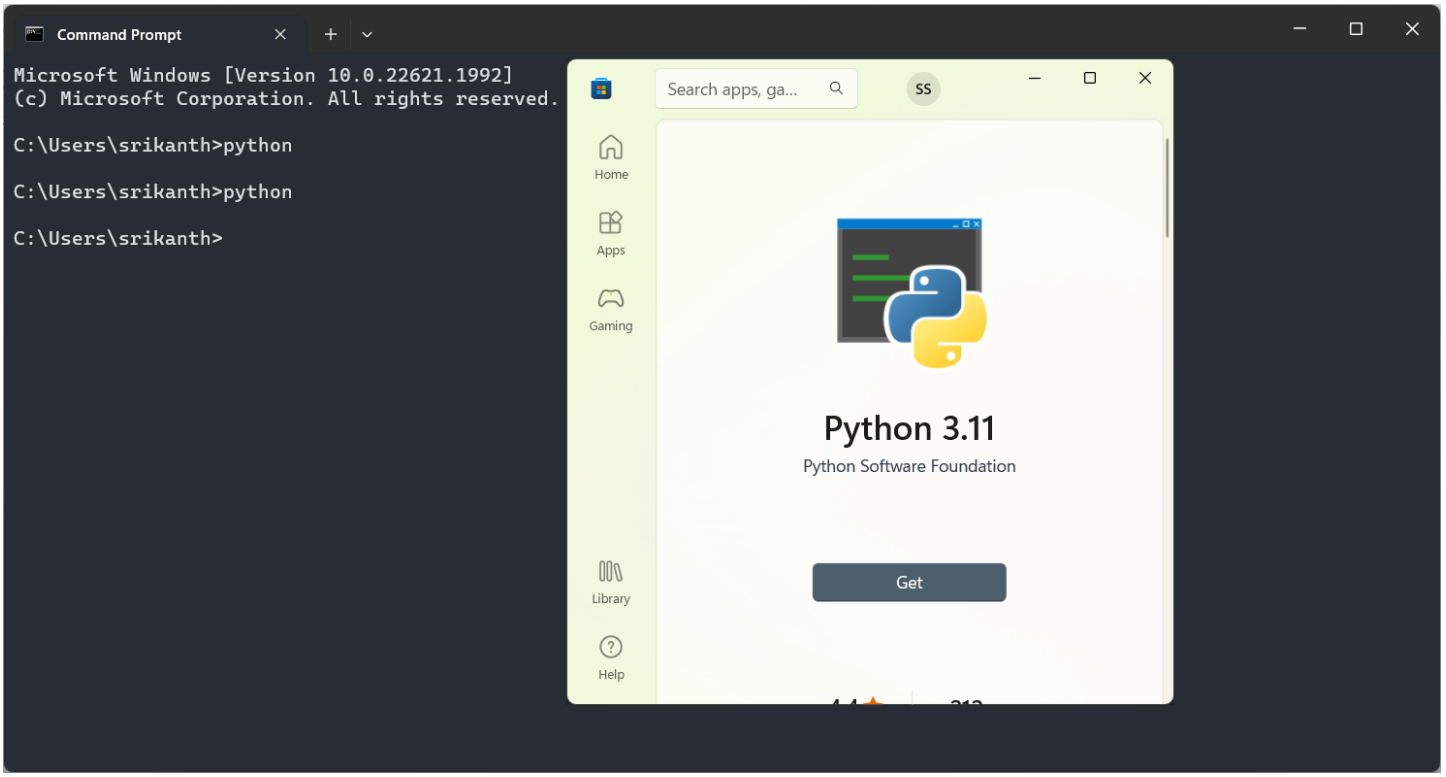
1. OS level Python uninstall

1. Check if the Path contains Python. Remove if exists





2. Type python in the console. If python does not exist already, a microsoft store link opens up. DO NOT click that to install python



2. Conda Install

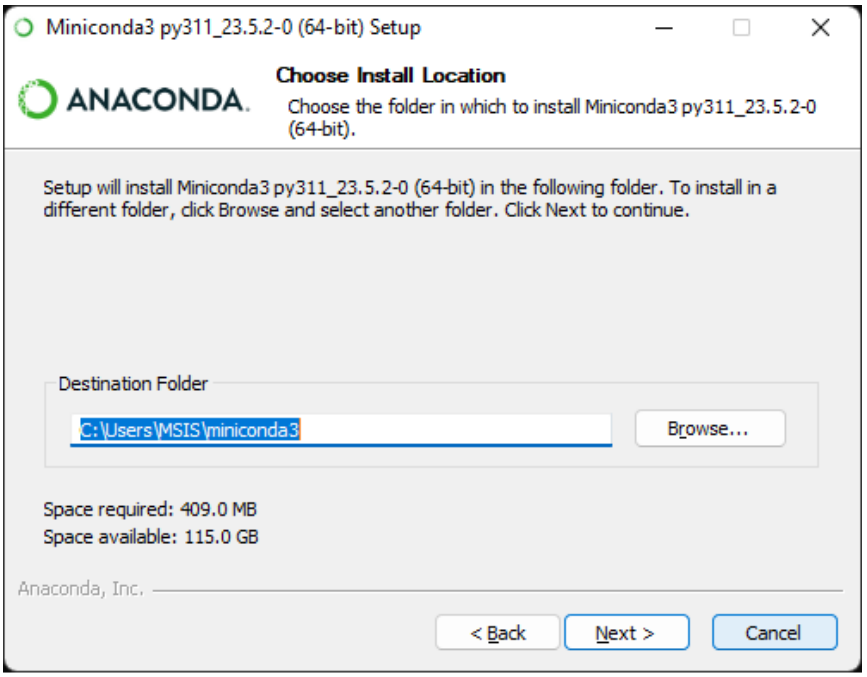
Pre-requisites

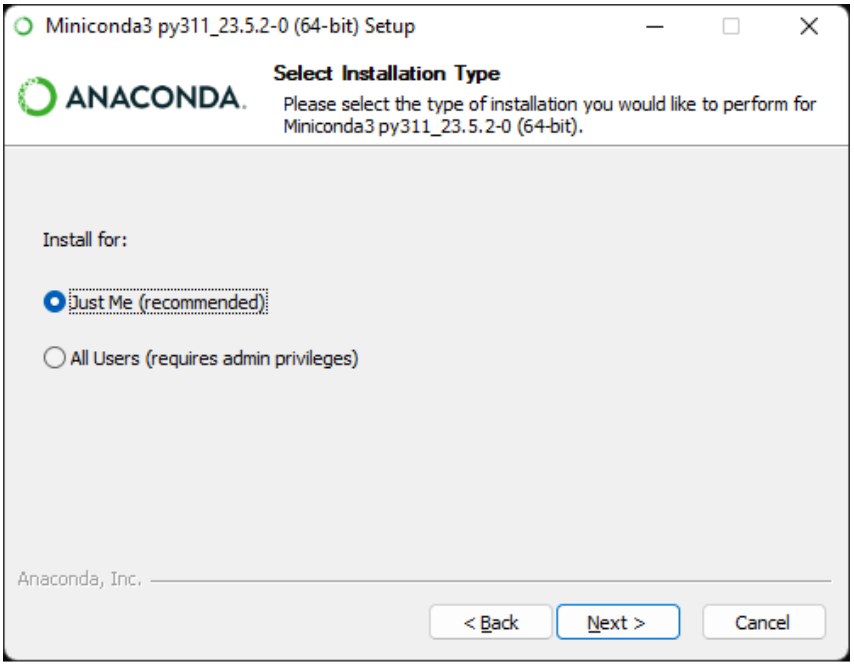
1. Your windows user name should not have space in it (otherwise conda setup and its package install fails).
2. No need to install Python separately when installing anaconda/miniconda. In fact it is better to not have any prior Python installed or have it in PATH. This is because we will rely on Anaconda/miniconda to download appropriate versions of Python as per the environment. Certain libraries such as sklearn Intel extensions work only up to Python 3.9

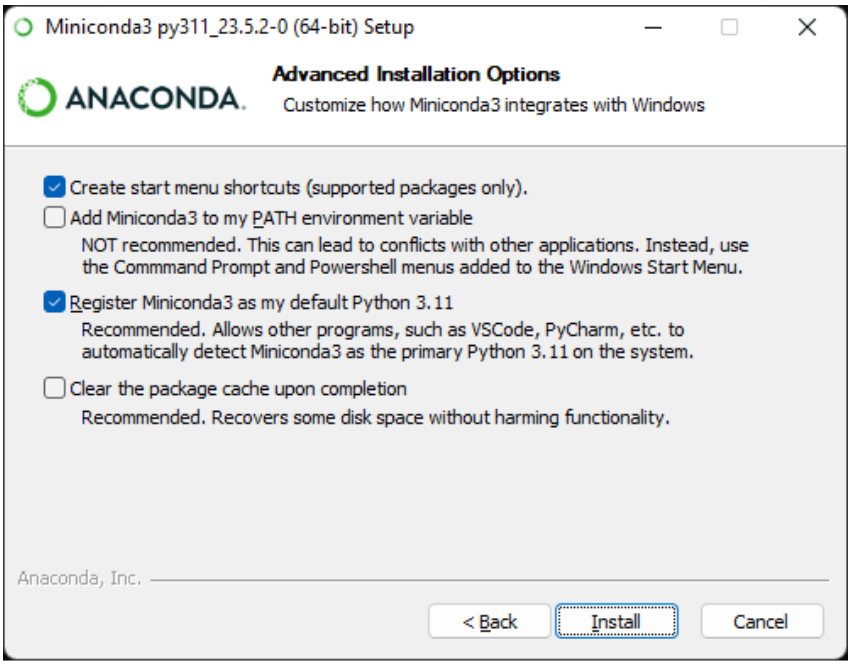
Install

Download either miniconda or anaconda and install in default path C:\Users\<username>\anaconda3
https://docs.conda.io/projects/conda/en/latest/user-guide/install/windows.html

Miniconda is preferred as that has a smaller footprint.
Make sure the following choices are made during install

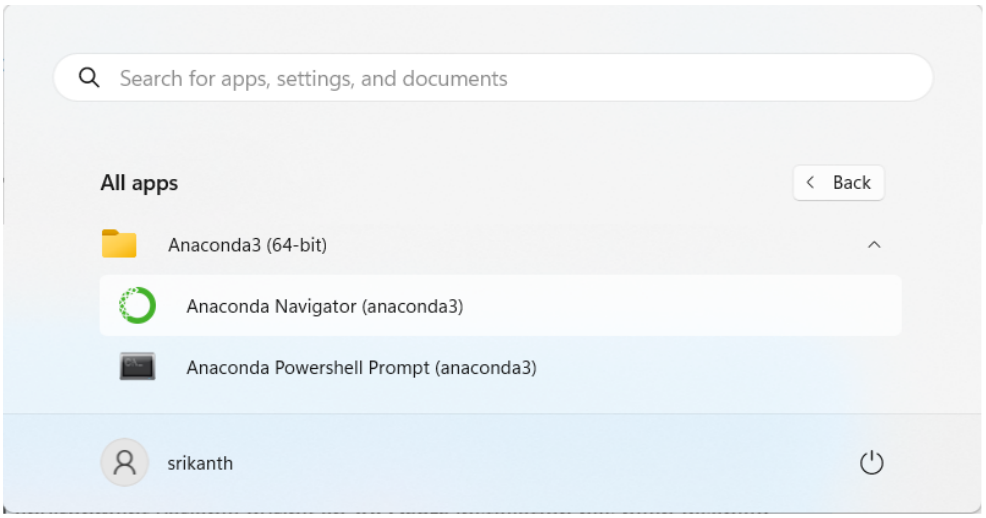

Miniconda3 py311_23.5.2-0 (64-bit) Setup
ANACONDA.
Choose Install Location
Choose the folder in which to install Miniconda3 py311_23.5.2-0 (64-bit).
Setup will install Miniconda3 py311_23.5.2-0 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Users\MSIS\miniconda3
Browse...
Space required: 409.0 MB
Space available: 115.0 GB
Anaconda, Inc.
< Back
Next >
Cancel


Miniconda3 py311_23.5.2-0 (64-bit) Setup
ANACONDA.
Select Installation Type
Please select the type of installation you would like to perform for Miniconda3 py311_23.5.2-0 (64-bit).
Install for:
Just Me (recommended)
All Users (requires admin privileges)
Anaconda, Inc.
< Back
Next >
Cancel


Miniconda3 py311_23.5.2-0 (64-bit) Setup
ANACONDA.
Advanced Installation Options
Customize how Miniconda3 integrates with Windows
Create start menu shortcuts (supported packages only).
Add Miniconda3 to my PATH environment variable
NOT recommended. This can lead to conflicts with other applications. Instead, use the Commmand Prompt and Powershell menus added to the Windows Start Menu.
Register Miniconda3 as my default Python 3.11
Recommended. Allows other programs, such as VSCode, PyCharm, etc. to automatically detect Miniconda3 as the primary Python 3.11 on the system.
Clear the package cache upon completion
Recommended. Recovers some disk space without harming functionality.
Anaconda, Inc.
< Back
Install
Cancel

Post install

1. Make sure the directory anaconda3/Scripts or miniconda3/Scripts is added by the installer to PATH Environment variable
2. Make sure you can see the above in windows → start



3. Click Anaconda powershell prompt (or regular command prompt) and check

```
conda env list
```

Next step

Download Conda cheat sheet. This will be your guide if you are stuck
https://docs.conda.io/projects/conda/en/latest/_downloads/843d9e0198f2a193a3484886fa28163c/conda-cheatsheet.pdf

3. Create Conda environment

Ensure you have enough good bandwidth before you run these

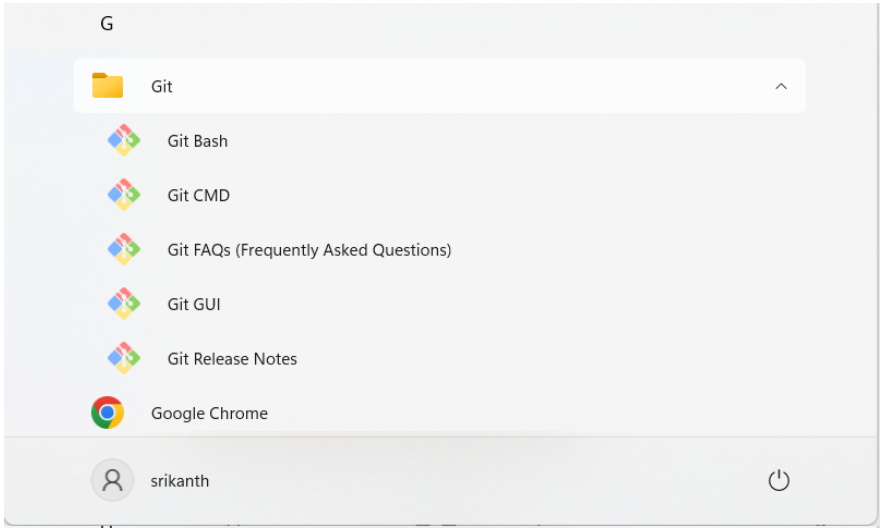
1. Open Anaconda Powershell Prompt
2. `conda create --name pycaretenv python=3.9`
3. `conda activate pycaretenv`
4. `conda install pip`
5. `conda install -p C:/Users/MSIS/miniconda3/envs/pycaretenv ipykernel --update-deps --force-reinstall`

If you messed up the install and want to start afresh

1. Open a new anaconda prompt
2. `conda deactivate pycaretenv`
3. `conda remove -name pycaretenv --all`

4. Install Git Client for windows

1. Download and install https://git-scm.com/downloads
2. Reference Git commands cheatsheet from github: https://training.github.com/downloads/github-git-cheat-sheet/
3. You should see this



4. **This step is not needed for the PyCaret ML End2End**
   ~~Open git bash.~~

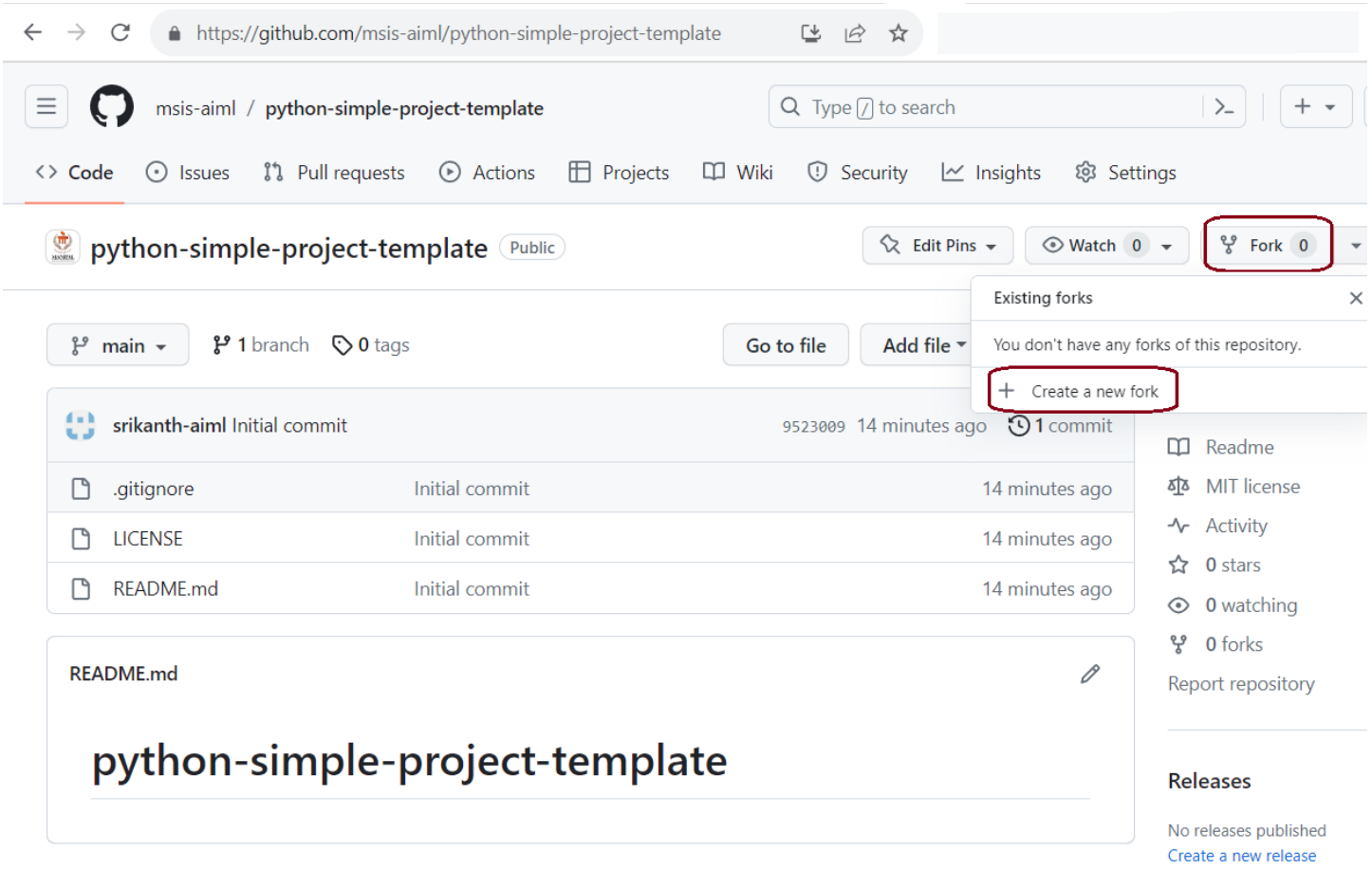
```
$ git config --global user.name "srikanth"
$ git config --global user.email "srikanth.shenoy@learner.manipal.edu"
```

5. Github setup

1. Create and validate Github account
2. Open Powershell console and run the ssh-keygen command as specified here https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent
3. The above step generates the ssh key with a file name in C:/Users/srikanth/.ssh
4. Copy the contents of the generated .pub file
5. Add the newly generated ssh key here - https://github.com/settings/ssh/new

6. Github fork

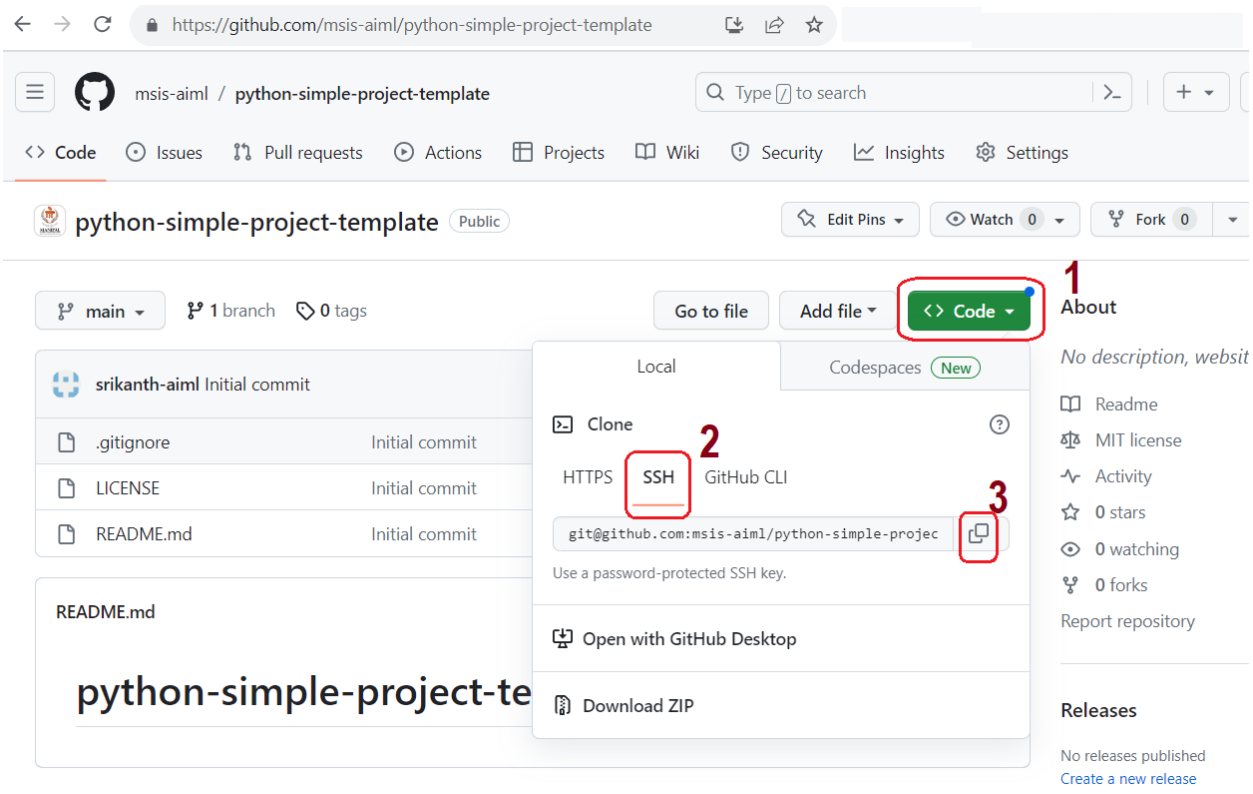
This step is not needed for PyCaret ML End2End



7. Git clone

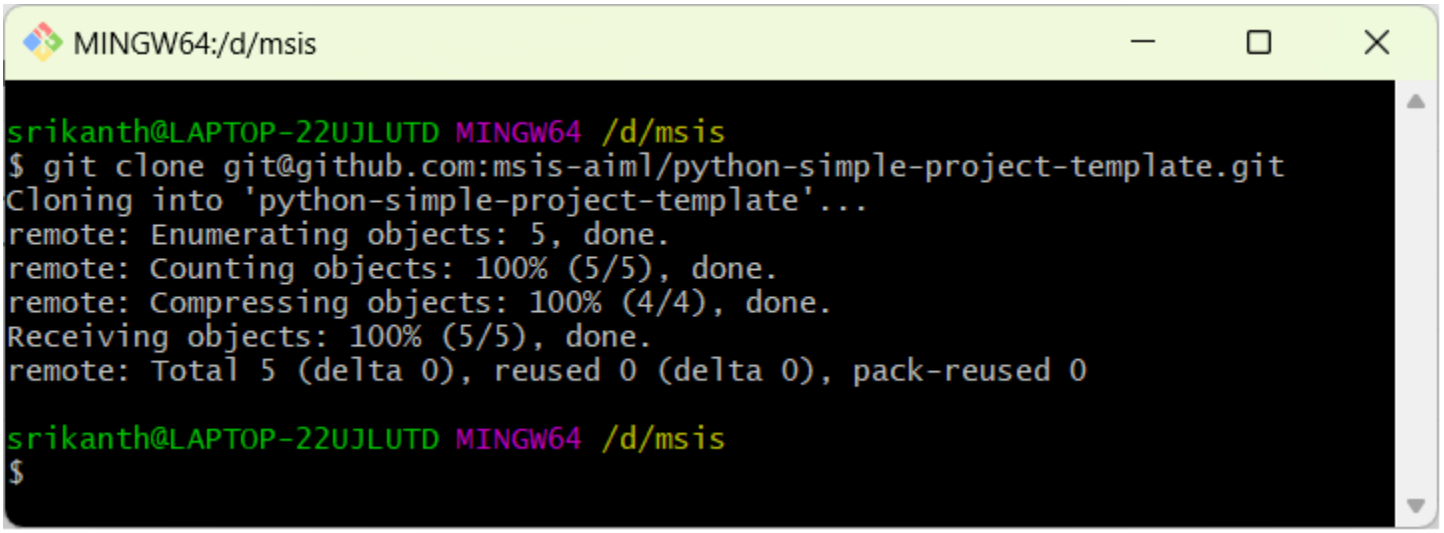
This step is not needed for PyCaret ML End2End

1. ~~Copy the ssh url of your **forked project**~~



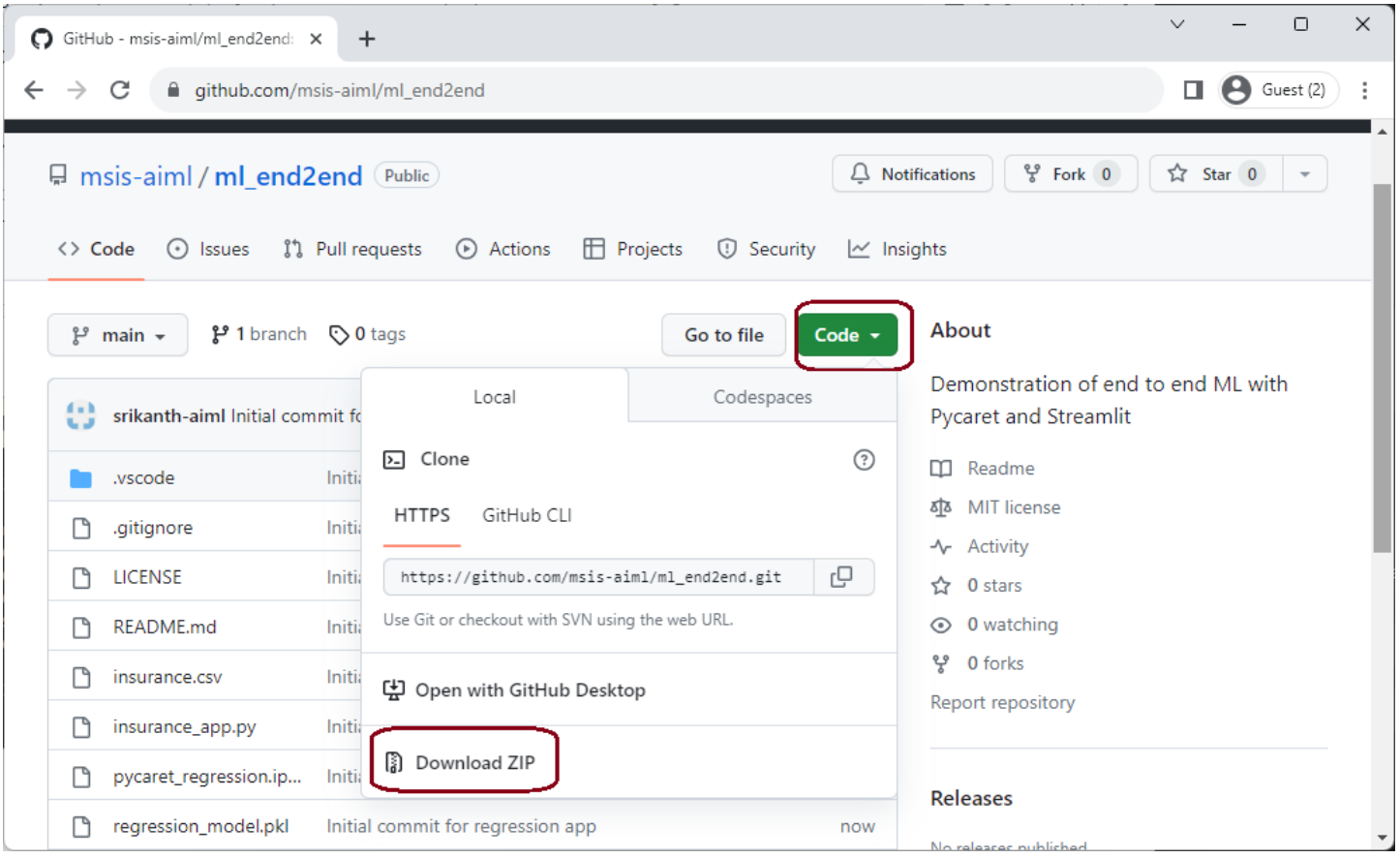
2. ~~In git bash. Go to the location where you want to clone your **forked** project and run this command~~

This step is not needed for PyCaret ML End2End



8. Download zip from github

Go to https://github.com/msis-aiml/ml_end2end and download the code zip. Expand it in some convenient directory like C:/Users/MSIS/me-coursework (If you are using your own laptop, then steps 4, 6, and 7 respectively for seting up git client, forking this github project and then cloning will suffice)



10. Install project libraries

Ensure you have enough good bandwidth before you run these

1. Open Anaconda Powershell Prompt or command prompt
2. cd C:/Users/MSIS/me-coursework/pycaret_mlend2end-main
3. `conda activate pycaretenv`
4. `pip install -r requirements.txt`

11. Install VS Code

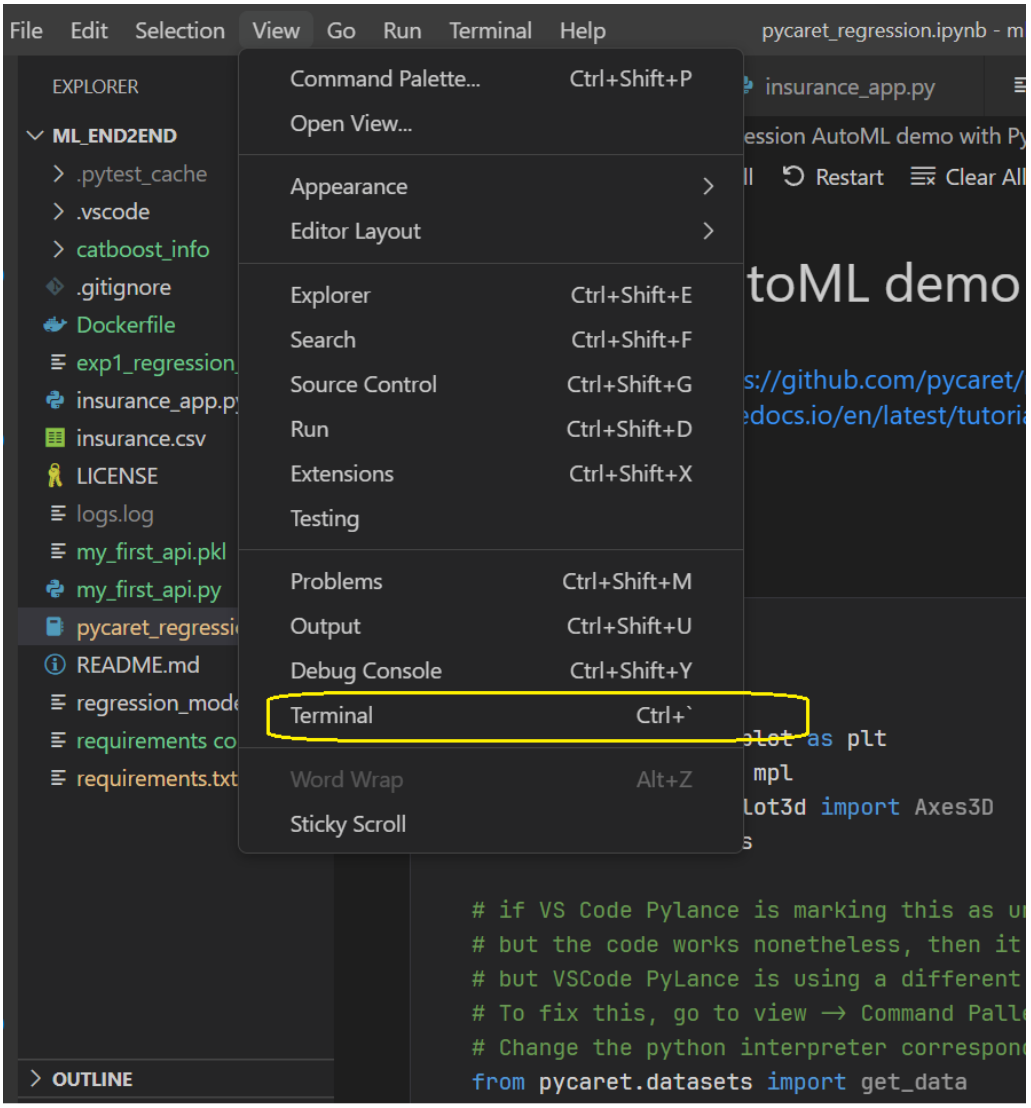
1. Install VSCode
2. Open VS Code.
3. Click on the Extensions icon on the left side and install Python

12. Open project in VS Code

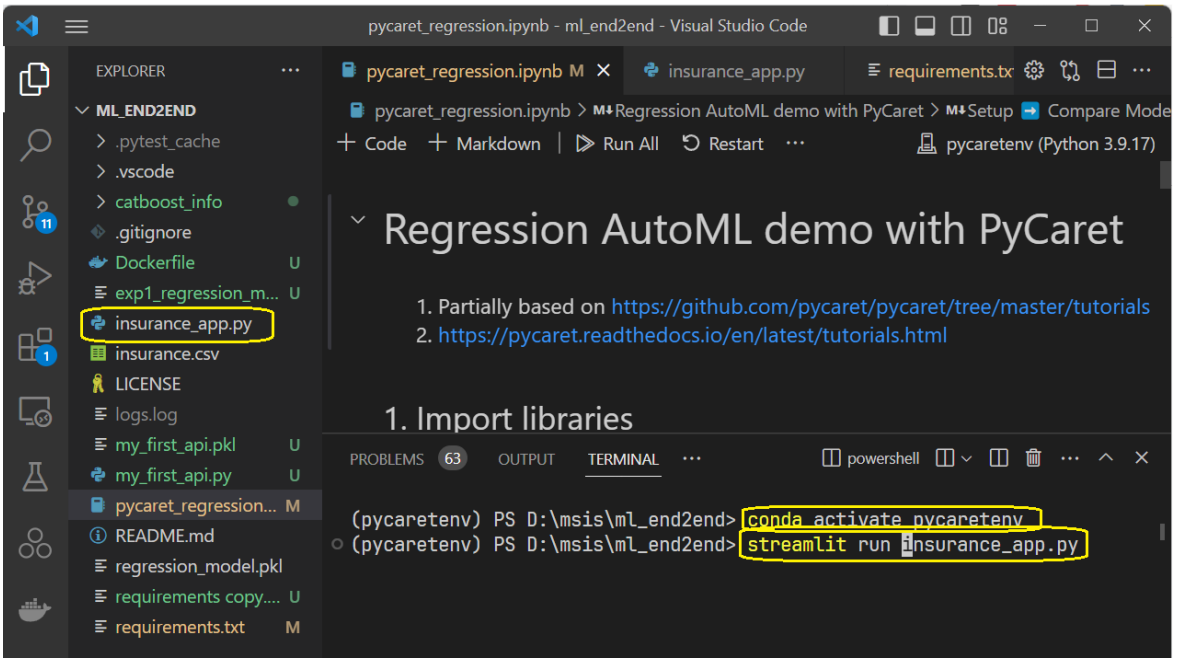
1. Open the folder pycaret_mlend2end-main in VS Code
2. Open the notebook pycaret_regression.ipynb
3. Select Kernel and then execute cell by cell
4. At the end, a model file is written out.

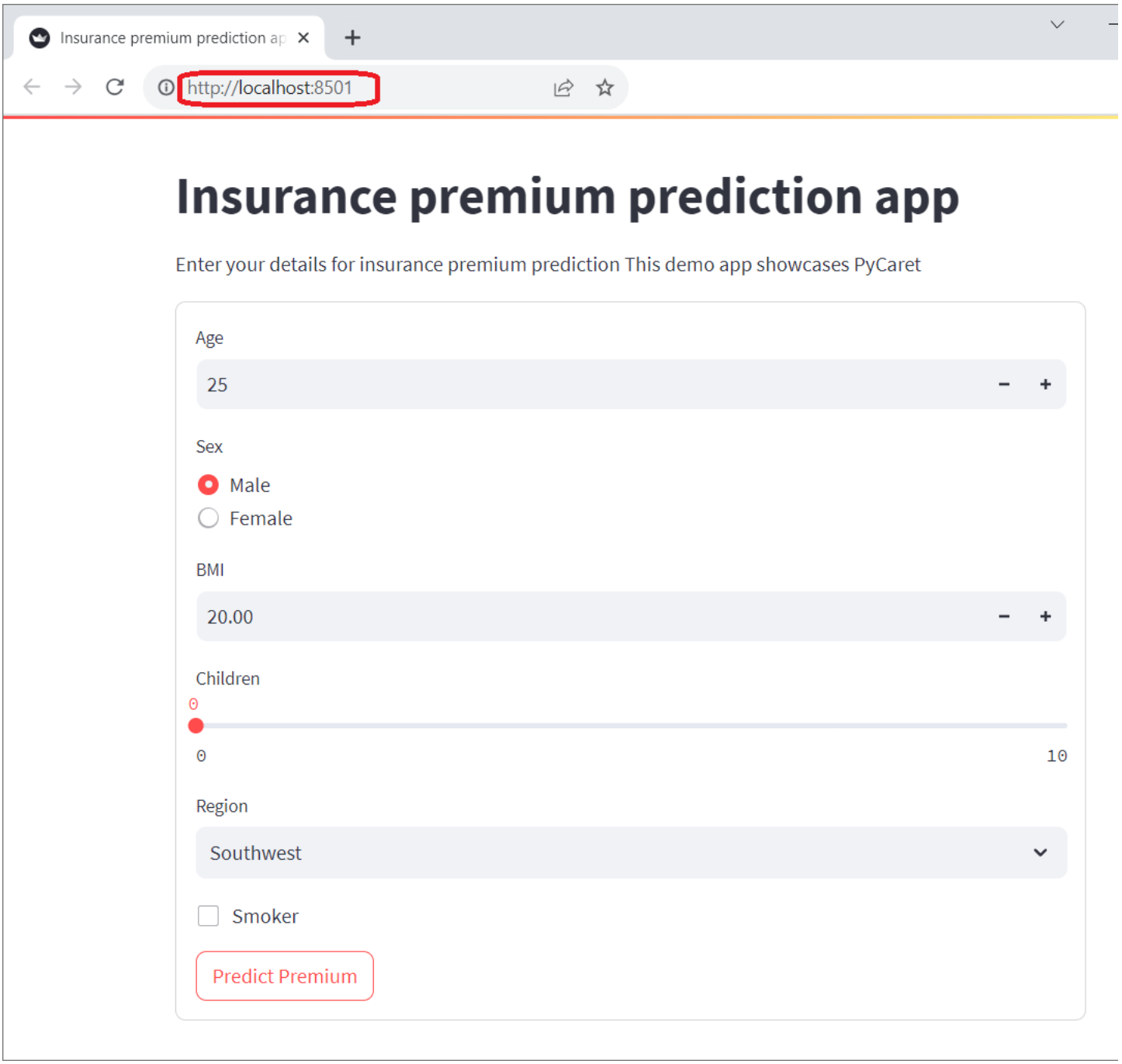
13. Run streamlit locally

1. View-> Terminal

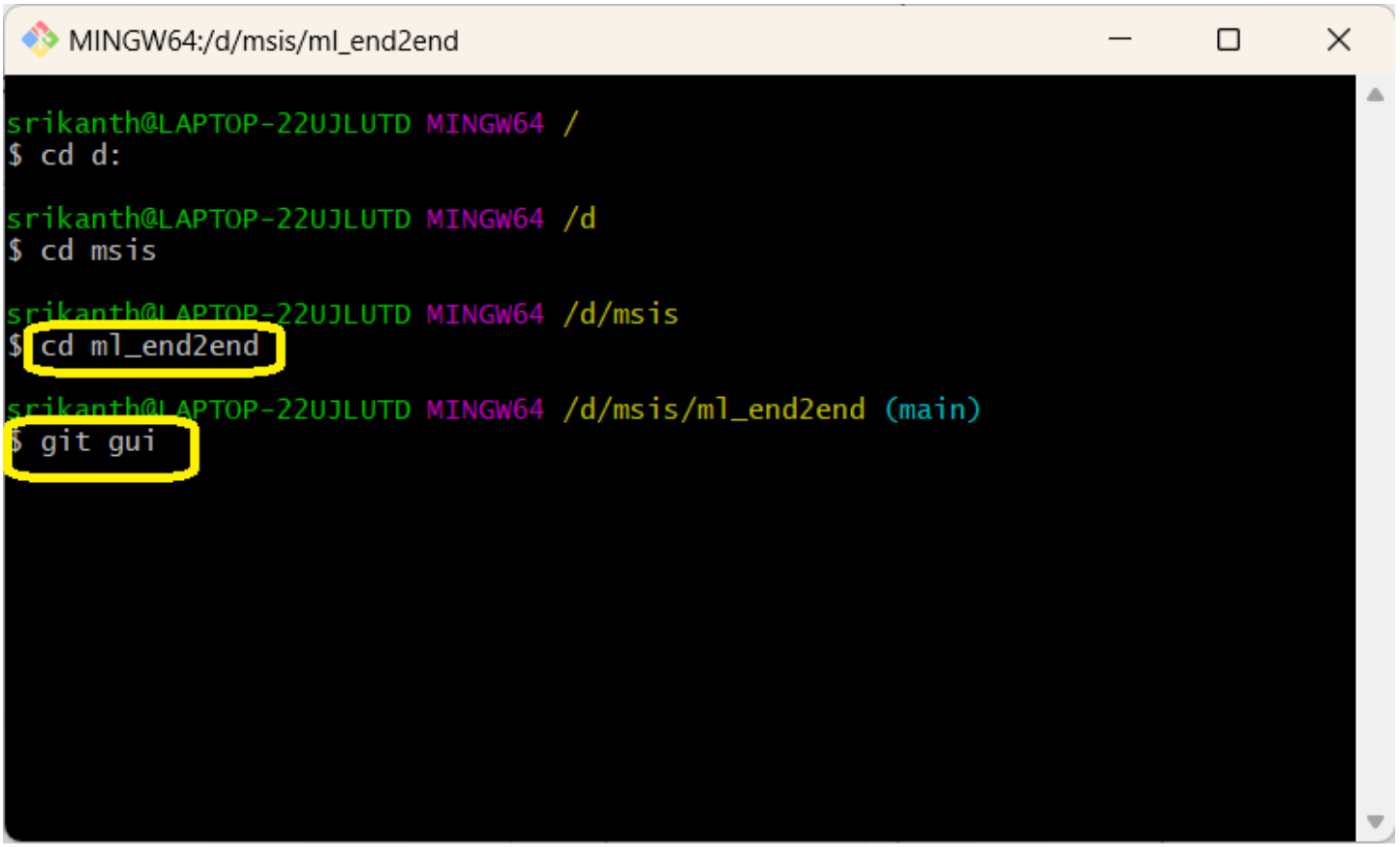


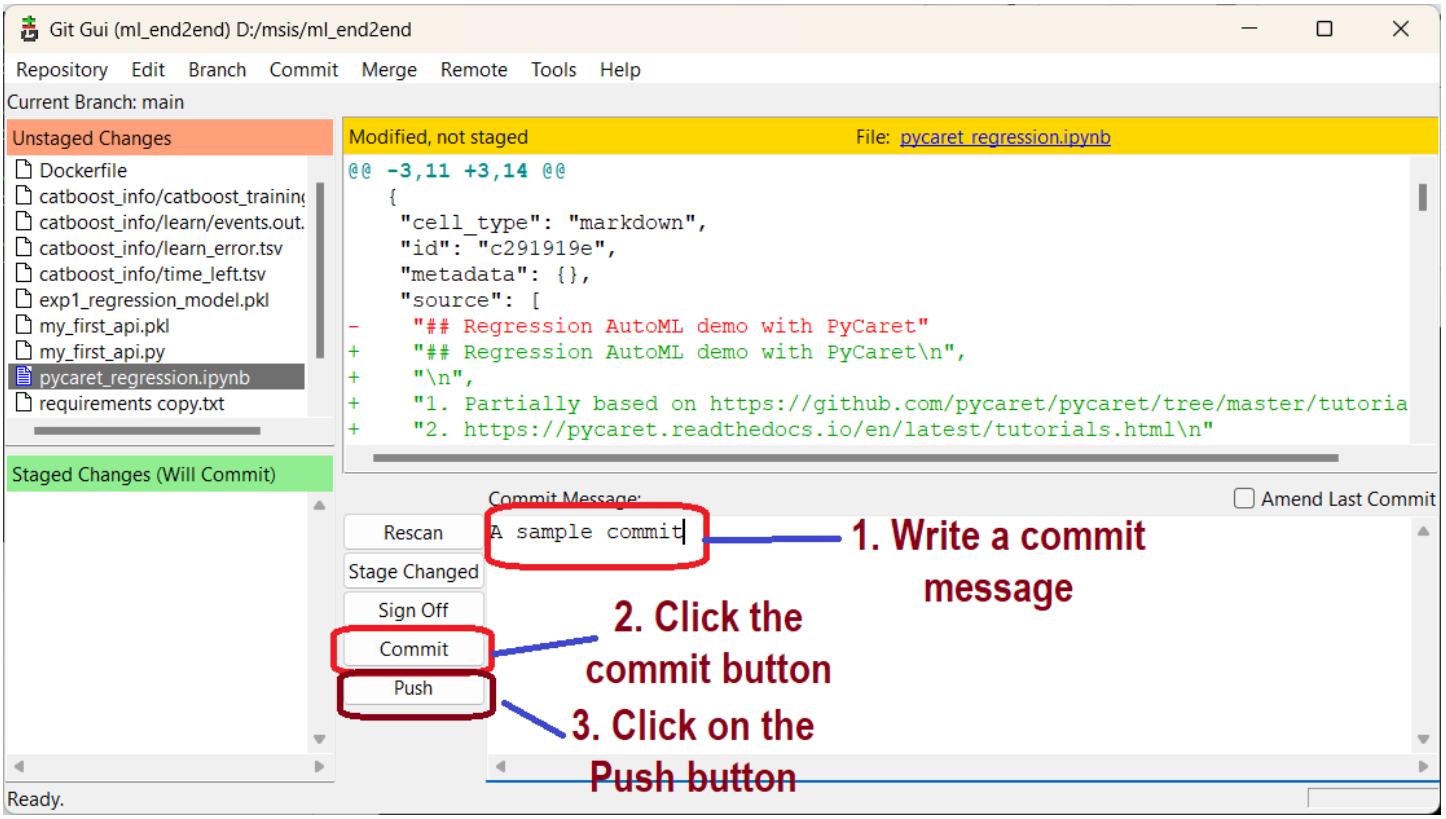
2. If the default conda environment activated is not pycaretenv, then activate it. (If the terminal in VS code does not work, then run in new Anaconda prompt)
3. Run the command streamlit run insurance_app.py




Insurance premium prediction ap
http://localhost:8501
Insurance premium prediction app
Enter your details for insurance premium prediction This demo app showcases PyCaret
Age
25
Sex
Male
Female
BMI
20.00
Children
0
0
10
Region
Southwest
Smoker
Predict Premium

14. Push your code to github

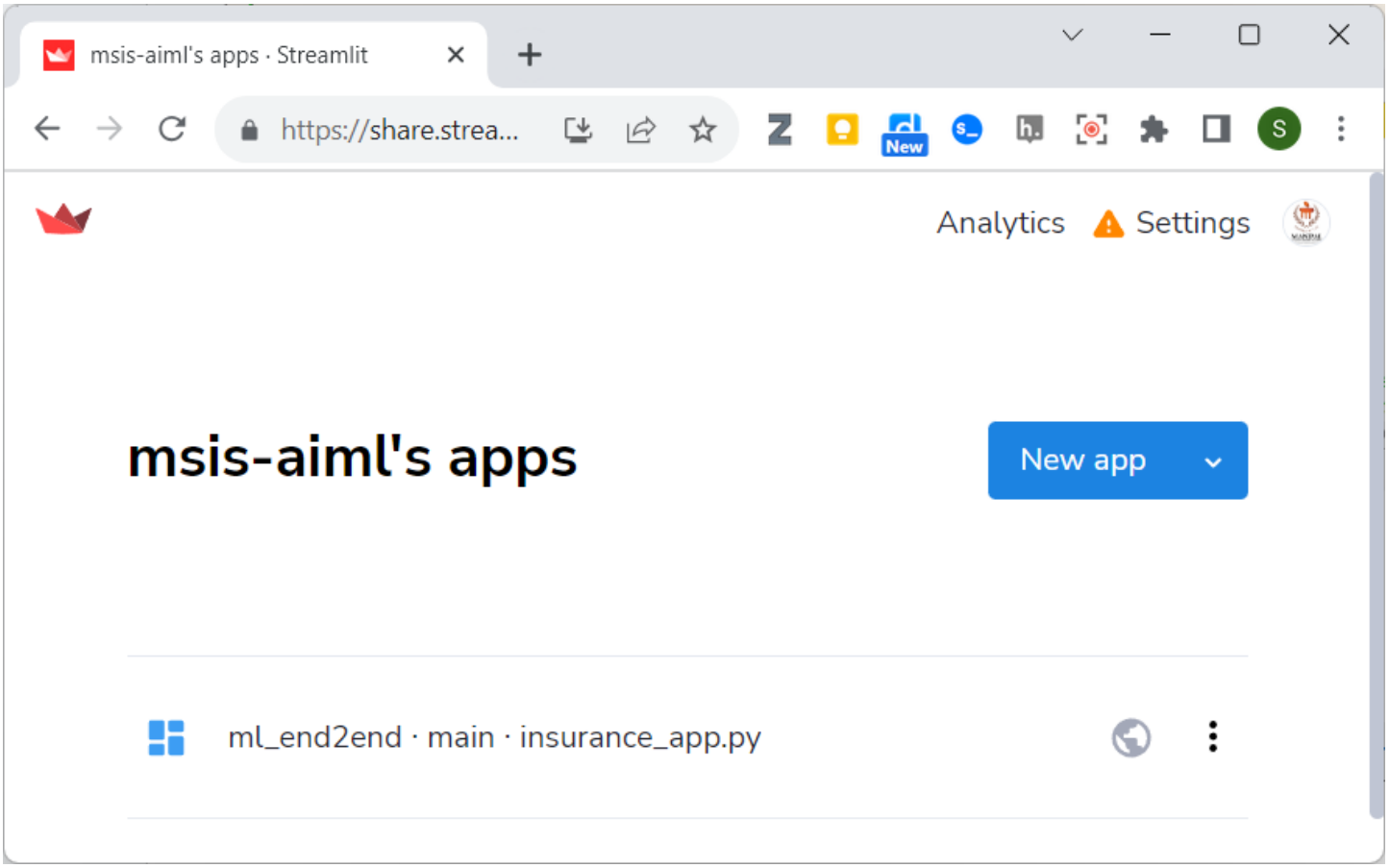




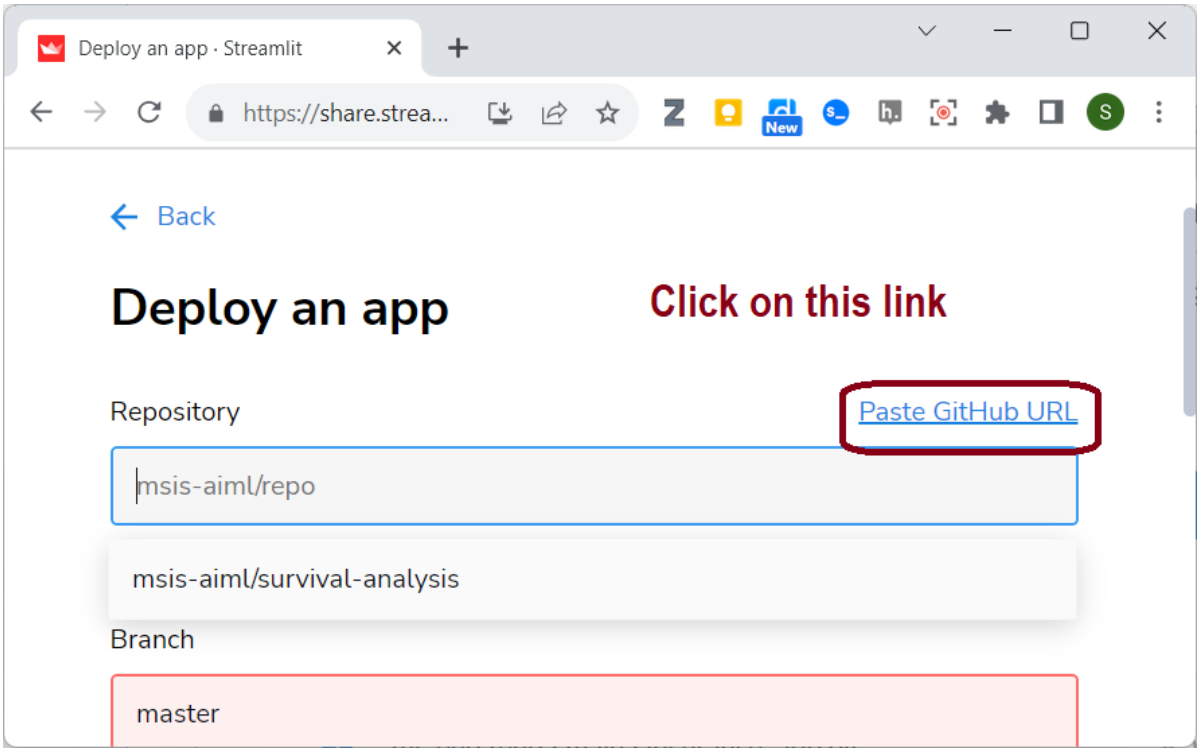
14. Host on Streamlit cloud

1. Go to the url https://share.streamlit.io
2. Connect your streamlit to your Github with OAuth as mentioned here (only follow step 2 and 3)- https://blog.streamlit.io/host-your-streamlit-app-for-free/

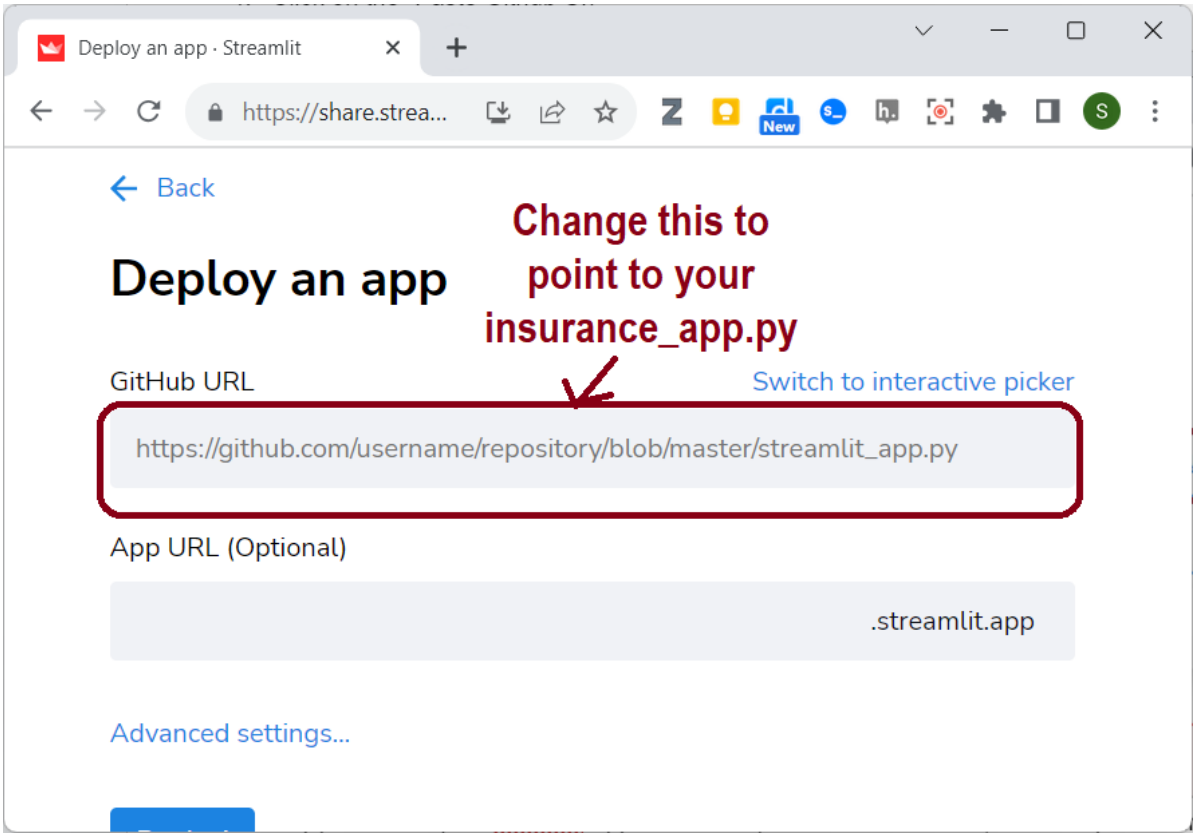
3. Click on the New App button in share.streamlit,io



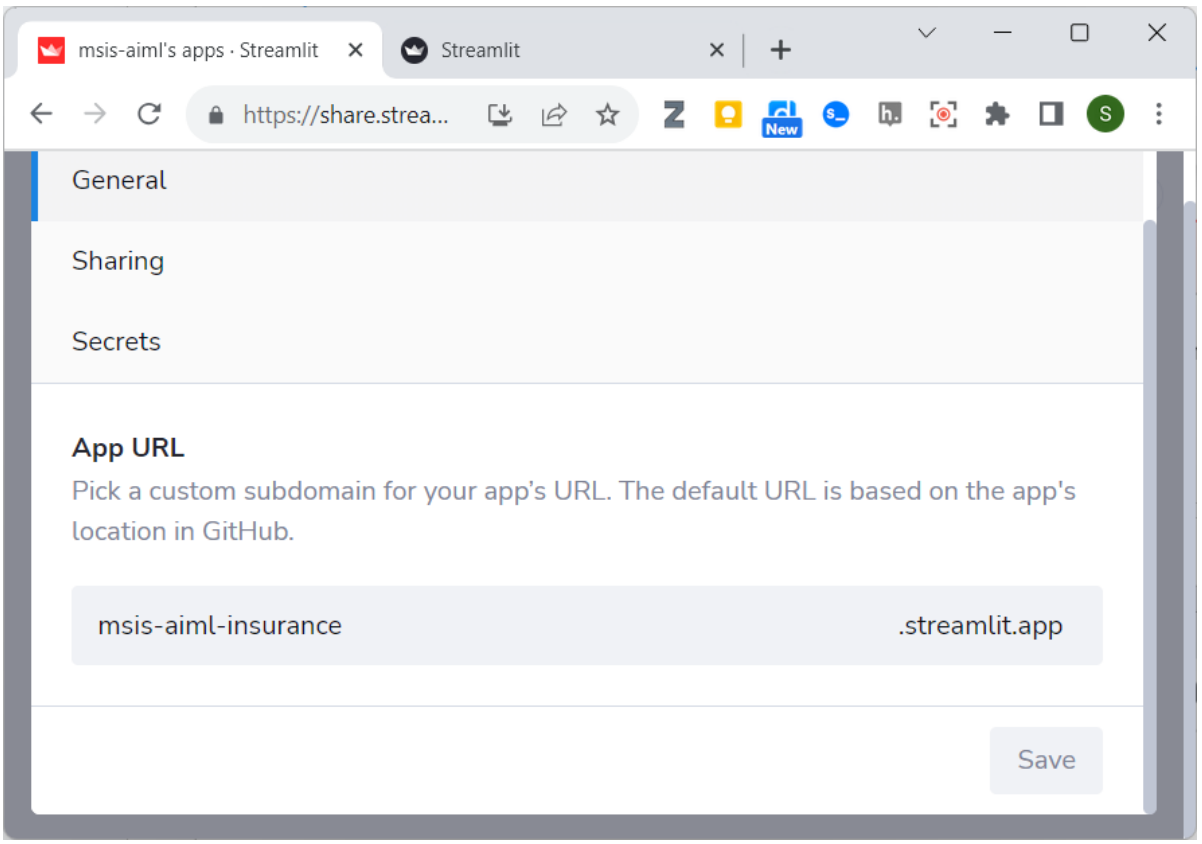
4. Click on the “Paste Github Url”



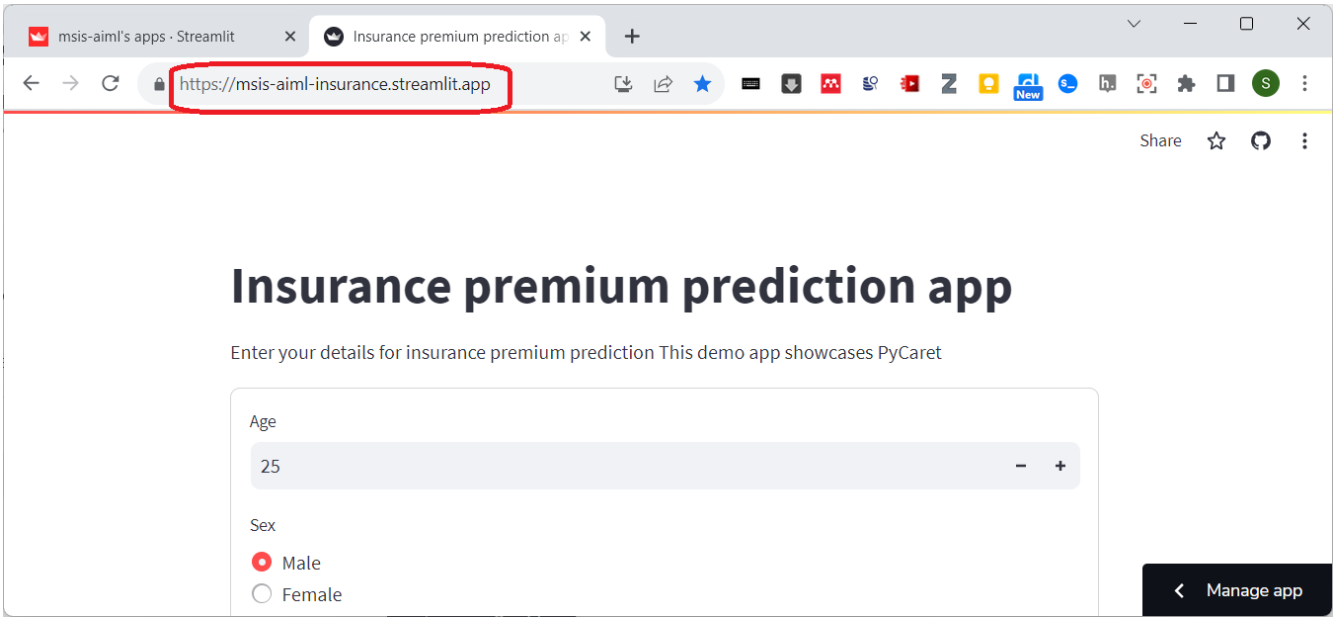
5. Copy the url to your streamlit app's main file (For the ml_end2end, it should point to insurance_app.py. Also provide a optional subdomain



For instance, the msis-aiml app I deployed has a subdomain of msis-aiml-insurance as follows



6. Submit and wait for the process to complete.
7. Then access the app as subdomain.streamlit.app. For e.g., the msis aiml insurance app can be accessed at the following location


msis-aiml's apps · Streamlit
Insurance premium prediction ap
https://msis-aiml-insurance.streamlit.app
Share
Insurance premium prediction app
Enter your details for insurance premium prediction This demo app showcases PyCaret
Age
25
Sex
Male
Female
Manage app