

## CS 7319 Software Architecture

### Homework 2 setup:

#### Installing and Running Jupyter Notebook for Sentiment Analysis

To run the sentiment analysis homework in Jupyter Notebook, students will need to have Jupyter installed (unless they choose to use an online environment like Google Colab).

##### Step 1 – Install Python

1. Go to <https://www.python.org/downloads/> and download Python 3.10 or newer.

2. During installation:

- Check "Add Python to PATH"
- Click "Install Now"
- apt install python3-3.10

##### Step 2 – Install pip (if not included)

Most Python installations include pip. To check:

- pip -version

If not installed, try :

```
➤ sudo apt install python3-pip
```

##### Step 3 – Install Jupyter Notebook

Open a terminal or command prompt and run:

- pip install notebook
- sudo apt install python3-notebook

If you want all scientific libraries (recommended), run:

- pip install notebook pandas numpy matplotlib

##### Step 4 – Launch Jupyter Notebook

In terminal/command prompt, navigate to the folder containing the homework .ipynb file, then run:

- jupyter notebook

This will open Jupyter in your default web browser.

##### Step 5 – Open and Run the Homework

1. In the Jupyter interface, navigate to the .ipynb file for the homework.

2. Click the file to open it.

3. Use Shift + Enter to run each code cell.

### Alternative (No Installation Required)

If students don't want to install anything locally, they can upload the .ipynb notebook to Google Colab at <https://colab.research.google.com/>, which runs Jupyter in the cloud.

### Helpful notes:

If you see the message below, you are fine.

To access the notebook, open this file in a browser:

file:///home/chow/.local/share/jupyter/runtime/nbserver-41135-open.html Or copy and paste one of these URLs:

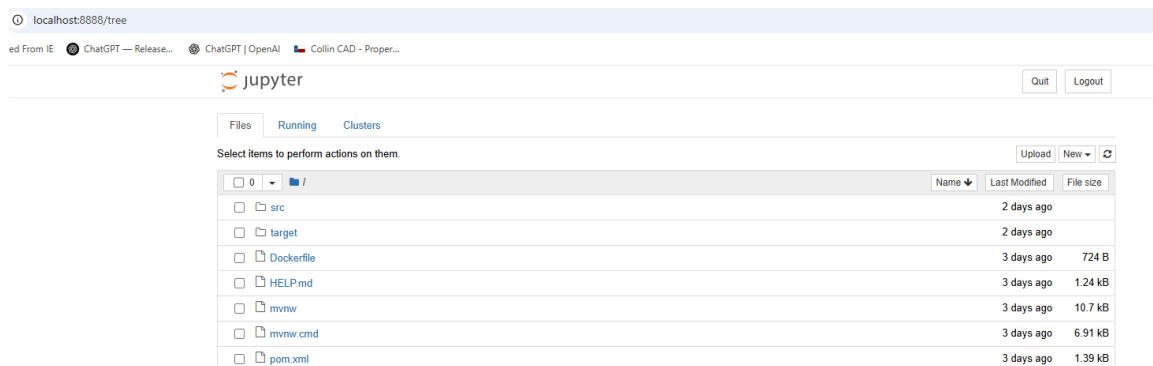
<http://localhost:8888/?token=5cce9c31ada10510cc5f0a2b639d14bf440f1df85154ba8> or

<http://127.0.0.1:8888/?token=5cce9c31ada10510cc5f0a2b639d14bf440f1df85154ba8> gio: file:///home/chow/.local/share/jupyter/runtime/nbserver-41135-open.html: Failed to find default application for content type 'text/html'

**Jupyter started correctly. The error is just your system trying (and failing) to auto-open a browser.**

**You should copy and paste the url in a browser:**

<http://localhost:8888/?token=5cce9c31ada10510cc5f0a2b639d14bf440f1df85154ba8>



The screenshot shows the Jupyter web interface in a browser. The address bar displays 'localhost:8888/tree'. The page header includes the Jupyter logo and 'Quit' and 'Logout' buttons. Below the header, there are tabs for 'Files', 'Running', and 'Clusters'. The 'Files' tab is active, showing a file explorer view. The interface prompts the user to 'Select items to perform actions on them.' and provides 'Upload' and 'New' buttons. A table lists the files and folders in the current directory:

Name	Last Modified	File size
src	2 days ago	
target	2 days ago	
Dockerfile	3 days ago	724 B
HELP.md	3 days ago	1.24 kB
mvnw	3 days ago	10.7 kB
mvnw.cmd	3 days ago	6.91 kB
pom.xml	3 days ago	1.39 kB