# Talk with Your Data Workshop - Installation Guide

## Installation Steps

**1.) Install Python**

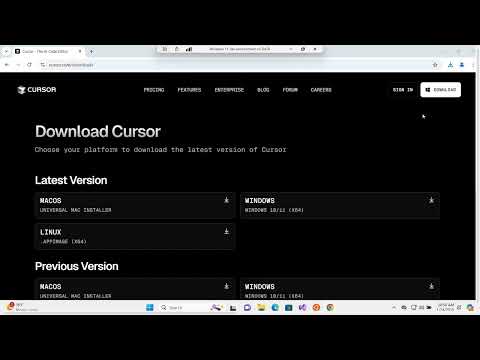
* Download and install Python ([version 3.10](https://www.python.org/ftp/python/3.10.11/python-3.10.11-amd64.exe) recommended) from the [official Python website](https://www.python.org/downloads/).
* Make sure to check the box **"Add Python to PATH"** during installation.

Alternatively, you can use a package manager like Homebrew (brew install python) on macOS.

📺 **Video Guide:** [Installing Python on Windows](https://www.youtube.com/watch?v=wwKAFw2Dwz0)

2.) **Install Cursor**

* Download and install Cursor from [here](https://www.cursor.com/)
* Note: You will need to create a free account.

[](https://www.youtube.com/embed/L_A2P1KJYpw?feature=oembed)

<https://www.youtube.com/watch?v=L_A2P1KJYpw>

**3.) Download the GitHub files, unzip, and set up the virtual environment**

1. Download the necessary files from GitHub: [Download Here](https://bit.ly/4ibI6X7)
2. Extract the zip file.
3. Open a terminal or command prompt.
4. Navigate to the directory where the GitHub files are located by running:

cd <directory-with-files>

1. Create a virtual environment:

python -m venv workshop\_env

1. Activate the virtual environment:
   * Windows (Command Prompt):

workshop\_env\Scripts\activate

* + Mac/Linux:

source workshop\_env/bin/activate

1. Upgrade pip and install dependencies:

pip install --upgrade pip

pip install -r requirements.txt

📺 **Video Guide:** [Setting Up a Virtual Environment](https://www.youtube.com/watch?v=Fv_tDvJuJpk)

4.) Set up Cursor with the Virtual Environment

1. Open Cursor and log in.
2. Navigate to the folder containing the downloaded files.
3. Open the chat using Ctrl + L and enter the following prompt:

Create an test.py file that says “Hello World.”

1. After the code is generated, scroll to the code section and press the "Apply" button.
2. Click the Play button in the upper right corner.
3. Install the Python extension if prompted.
4. Click the Play button again.
5. In the pop-up, select the Python Interpreter:
   * Click **"Select Interpreter"**
   * Choose workshop\_env
   * Click **Play** to run app.py. This should output **"Hello World"** in the terminal.

5.) Optionally: Set up the Python Interpreter Separately

* Open the **Command Palette** (**Ctrl+Shift+P**), type Python: Select Interpreter, and choose the appropriate Python version.

## OPTIONAL: How to Follow Along in Google Colab

If you prefer not to install software locally, you can run the workshop in **Google Colab**, a cloud-based environment that supports Python development.

**Step 1: Open the Colab Notebook**

1. Click this link to open the notebook:  
   👉 [Google Colab Notebook](https://colab.research.google.com/drive/1XxSgghdO5jZGfwCa_vbmOYKVX0FBjQsi#scrollTo=S8yg_qfyP0kR)
2. Ensure you're signed into a **Google account** to save and edit the notebook.

**Step 2: Set Up the Environment**

In Colab, you don’t need to manually install Python, but you do need to install dependencies. Run the following in a Colab cell:

!pip install faiss-cpu flask sqlite3

If additional dependencies are required, install them as needed.

**Step 3: Run the Code Cells**

* The notebook is pre-configured to run the chatbot setup.
* Click **Runtime** → **Run all** to execute all steps sequentially.
* Modify and run individual cells by clicking the **Play** button next to each cell.

**Step 4: Testing the Chatbot**

**To test out the chatbot, try the commands below:**

*Windows - Powershell*:

1. curl -Method Post -Uri "https://your-tunnel.loca.lt/chat" -Headers @{"Content-Type"="application/json"} -Body '{"query": "Tell me about CosmoLatte"}' -UseBasicParsing
2. curl -Method Post -Uri "https://your-tunnel.loca.lt/graph\_query" -Headers @{"Content-Type"="application/json"} -Body '{"entity": "CosmoLatte"}' -UseBasicParsing

*Mac - Terminal*:

1. curl -X POST "https://your-tunnel.loca.lt/chat" -H "Content-Type: application/json" -d '{"query": "Tell me about CosmoLatte"}'
2. curl -X POST "https://your-tunnel.loca.lt/graph\_query" -H "Content-Type: application/json" -d '{"entity": "CosmoLatte"}'

**Step 5: Save Your Work**

* Changes are temporary unless you save a copy to your **Google Drive**:
  + Click **File** → **Save a copy in Drive**.

## Workshop Steps

This workshop has 3 steps that will be used to generate and test the code.

1.) Run app.py. After it is started, leverage fastapi to test with:

python app.py  
Access the web interface at: <http://127.0.0.1:5000/docs>

click on Post > try it out and then edit the query string

{

"query": "What is the strongest coffee?"

}

2.) Leverage the prompts.txt to create the front-end chat interface

3.) Leverage the prompts.txt to create tests for all components