**Talk with Your Data Workshop - Installation Guide**

**Installation Steps**

**1.) Install Python**

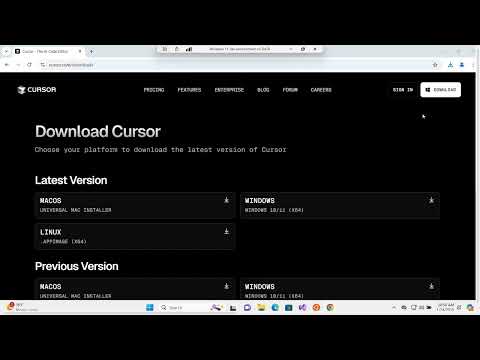
* Download and install Python (version 3.10 recommended) from the [official Python website](https://www.python.org/downloads/).
* Make sure to check the box **"Add Python to PATH"** during installation.

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 / PowerShell):**

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

1. **Verify the installation by running the Python scripts:**

python LLM.py

python -c "import sqlite3; print(sqlite3.sqlite\_version)"

python -c "import huggingface\_hub; print('Hugging Face Hub works!')"

📺 **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 app.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.

Workshop Steps:

This workshop has 4 prompts that will be used to generate and test the code.

Step 1.) Use prompt #1 to set up the database

Step 2.) Creates the app. After it is created, run it and leverage fastapi to test with:  
Access the web interface at: http://127.0.0.1:5000

Send POST requests to http://127.0.0.1:5000/chat for programmatic access

Step 3.) Creates the front-end chat interface

Step 4.) Tests all components