**Step-by-Step Setup Instructions (for Cloud Computing Performance Metrics Dashboard)-**

**1. Install Python**

* Download from: <https://www.python.org/downloads/>
* **Important:** During installation, check the box that says **"Add Python to PATH"**.
* To verify installation, open Command Prompt and run:
* python --version

**2. Install VS Code**

* Download from: <https://code.visualstudio.com/>

**3. Create a Project Folder**

* Make a new folder anywhere, e.g.,  
  C:\Users\YourName\cloud\_dashboard\_project
* Save your code file (e.g., dashboard.py) and dataset (vmCloud\_data.csv) inside this folder.

**4. Open Terminal / Command Prompt in the Project Folder**

* You can:
  + Open Command Prompt and navigate using cd
  + cd C:\Users\YourName\cloud\_dashboard\_project
  + Or open folder in **VS Code** and go to **Terminal → New Terminal**

**5. Create a Virtual Environment**

python -m venv venv

**6. Activate the Virtual Environment**

**On Windows:**

venv\Scripts\activate

You’ll see (venv) appear in the terminal prompt if it's activated.

**7. Install Required Packages**

In the **same terminal** (with virtual environment activated), run:

pip install streamlit pandas openpyxl

**8. Download the Dataset**

* Go to: <https://www.kaggle.com/datasets/abdurraziq01/cloud-computing-performance-metrics>
* Download the CSV file.
* Rename it to vmCloud\_data.csv (if needed) and **place it inside your project folder**.

**9. Save the Python Code**

Create a new Python file (e.g., dashboard.py) and copy-paste your Cloud Dashboard code into it.

Make sure this line in your code matches the actual file path:

df = pd.read\_csv(r"vmCloud\_data.csv")

**10. Run the Dashboard**

Use this command in the terminal:

streamlit run dashboard.py

Your browser will open with the dashboard.