Running a **Streamlit app** on a local computer is simple and beginner-friendly. Here's a step-by-step guide (*OpenAI ChatGPT 40*):

Step-by-Step Instructions

1. Install Python

- **Prerequisite**: You need Python installed (version 3.7 or higher is recommended).
- **Download Python**: Go to https://www.python.org/downloads/ and download the latest version for your operating system.
- During installation:
 - o Check "Add Python to PATH".
 - Select "Customize installation" → Enable "pip" (a package manager for Python).

2. Install Required Libraries

- Open a terminal/command prompt and run the following commands:
- pip install streamlit
 - o If your app uses additional libraries like openai or doteny, install them as well:
 - o pip install openai python-dotenv groq

3. Write the Streamlit App

- Create a .py file for your app. For example:
 - o Open any text/code editor (e.g., VSCode, PyCharm, Notepad++).
 - Save your file as app.py.
 - o Paste your Streamlit code into the file.

4. Run the Streamlit App

- Open a terminal/command prompt in the directory where the app.py file is located.
- Run the app using the command:
- streamlit run app.py

5. View the App in Your Browser

- Once you run the command, Streamlit will start a local server and show output like this:
- Local URL: http://localhost:8501
- Network URL: http://<your-ip>:8501
- Open the Local URL (http://localhost:8501) in your web browser to view the app.

Additional Setup for Beginners

A. Create a Virtual Environment (Optional, but Recommended)

- To avoid conflicts between packages, use a virtual environment:
- python -m venv streamlit_env
- source streamlit_env/bin/activate # Mac/Linux
- streamlit_env\Scripts\activate # Windows
- pip install streamlit

B. Store API Keys Securely

- If your app uses API keys, avoid hardcoding them. Use a .env file:
 - o Create a file named .env in the same directory as app.py.
 - o Add your key like this:
 - o GROQ_API_KEY=your_api_key_here
 - o In your app, load the .env file:
 - o from dotenv import load_dotenv
 - o import os

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- load_dotenv()
- o api_key = os.getenv("GROQ_API_KEY")

C. Troubleshooting Tips

- If streamlit command is not found:
 - Ensure Python and pip are installed correctly.
 - o Check the Python PATH environment variable.
- To update Streamlit:
- pip install --upgrade streamlit

Summary of Commands

Here's a recap of the most important commands:

- 1. Install Streamlit:
- 2. pip install streamlit
- 3. Run the app:
- 4. streamlit run app.py
- 5. Stop the app:

o In the terminal, press Ctrl+C.