

# Lab 4 Getting Started with Streamlit

[Streamlit](#) is an open-source Python framework for quickly building and deploying interactive web applications, especially for data science and AI projects. It allows developers to create user-friendly apps with minimal coding, focusing on Python scripts without needing frontend expertise.

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## 1. Install Required Dependency:

1. **Open Your Terminal:**
  - Open your VS Code **terminal** with the **active VM**.
  - You have to activate the VM environment before the next step.
2. **Install Streamlit:** Run the following command

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```
**pip install streamlit**
```

1. Verify Streamlit Installation

```
pip show streamlit
```

If Streamlit is installed, you should see output like this:

```
Name: streamlit
Version: X.X.X
Location: /path/to/python/site-packages
```

## 2. Running Streamlit

Once Streamlit is installed, verify the installation by running the following command in your **terminal** with the **active VM**:

```
streamlit hello
```

This will start a demo app in your **default web browser**.

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To start the Lab 4 app, run the following command in your **terminal** with the **active VM**:

`streamlit run xxxx.py` `##xxxx` is the name of the python file for the app.

This will start the app in your **default web browser**.

### 3. Closing Streamlit

To stop Streamlit, go to your terminal and **press**:

- **Windows/Linux/macOS:** `Ctrl + C`

This will **terminate the running Streamlit server**.

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**By following this guide, you have successfully:**

- ✓ **Installed** Streamlit on your system
- ✓ **Verified** the installation by running the demo app
- ✓ **Learned** how to stop the Streamlit server

You're now ready to build your first **Streamlit AI application**!