

1. Create a Virtual Environment

1. **Open VS Code.**
2. **Open the terminal:**
 - You can do this by pressing `Ctrl+`` (backtick) or navigating to `View > Terminal`.
3. **Create a virtual environment:**
 - Run the following command in the terminal:

```
python -m venv venv
```
 - This creates a virtual environment named `venv`.
4. **Activate the virtual environment:**
 - On **Windows**:

```
venv\Scripts\activate
```
 - On **macOS/Linux**:

```
source venv/bin/activate
```
 - You should see `(venv)` before the command prompt, indicating that the virtual environment is active.

2. Install Packages from `requirements.txt`

1. **Ensure the virtual environment is active** (you should see `(venv)` in the terminal prompt).
2. **Install the required packages:**
 - Run the following command in the terminal:

```
pip install -r requirements.txt
```
 - This installs all the packages listed in your `requirements.txt` file.

3. Run the Streamlit Application

1. **Ensure the virtual environment is active** (you should see `(venv)` in the terminal prompt).
2. **Run the Streamlit application:**
 - Use the following command to start the Streamlit server:

```
streamlit run app.py
```
 - Replace `app.py` with the name of your Python file if it's different.
3. **Access the application:**
 - After running the command, Streamlit will start a local server. Open your web browser and navigate to the URL provided in the terminal (usually `http://localhost:8501`).