

1. Install Python:
2. Download from <https://www.python.org/downloads/>
3. Check "Add Python to PATH"
4. Verify: `python --version` or `py --version`
5. Create Project Folder: D:\Python_Projects\Smart_Meter_Dashboard
6. Create `app.py` file:
7. Save as `app.py` inside project folder
8. Paste your Streamlit code
9. Create virtual environment:
10. Open CMD in project folder
11. `py -m venv venv`
12. Activate: `venv\Scripts\activate`
13. Install required packages:
14. `pip install streamlit pandas matplotlib seaborn openpyxl`
15. Test Streamlit:
16. `streamlit --version`
17. `streamlit run app.py`
18. Create `requirements.txt`: `streamlit pandas matplotlib seaborn openpyxl`
19. Create `run_app.bat`:
`@echo off title Smart Meter Dashboard cd /d "%~dp0" if not exist venv (py -m venv venv) call venv\Scripts\activate pip install -r requirements.txt streamlit run app.py pause`
20. Run:
21. Double click `run_app.bat`
22. Streamlit Dashboard opens at `http://localhost:8501`
23. Editing & Live Reload:
24. Open `app.py` in VS Code
25. Edit and save (Ctrl+S)
26. Changes reflected automatically