

DATA BOT GUIDE

Welcome to Data Bot – a local AI-powered data dashboard built using Python, Streamlit, and Ollama. This guide explains setup & usage even for complete beginners.

1. GETTING STARTED (FIRST-TIME SETUP)

1. Extract the "data-bot" folder anywhere (e.g. D:\Projects\data-bot)
2. Inside the folder, you'll find:
 - first_time_run.bat
 - run.bat
 - resources\requirements.txt
3. Double-click ****first_time_run.bat****
 - Creates a virtual environment
 - Installs Python libraries
 - Installs Ollama
 - Downloads Gemma3:1b AI model

When done, you'll see:

```
[■] Setup completed successfully!  
You can now run the app using run.bat
```

2. RUNNING THE DASHBOARD

- Double-click `run.bat`
- Activates venv, starts Ollama & Streamlit
- Opens `http://localhost:8501` automatically

3. FOLDER STRUCTURE

```
data-bot/  
■  
■■■ app.py           ← Main Streamlit app  
■■■ chat_ui.py       ← Chat assistant logic  
■■■ run.bat          ← Launch script (daily use)  
■■■ first_time_run.bat ← One-time setup script  
■  
■■■ venv/            ← Auto-created virtual environment  
■  
■■■ resources/  
■   ■■■ requirements.txt ← Python dependencies  
■  
■■■ instructions.txt ← This guide
```

4. WHAT IS A VIRTUAL ENVIRONMENT?

A safe, isolated space where your project's libraries are stored.
It keeps your main Python setup clean.
Created automatically by `first_time_run.bat`.

5. KEY COMPONENTS

```
Streamlit → Web interface  
Pandas/Numpy → Data handling  
Matplotlib/Seaborn/Plotly → Visualization  
Tabulate → Pretty tables  
Ollama → Local AI backend  
Gemma3:1b → Default lightweight AI model
```

6. TROUBLESHOOTING

- Python not found → Install Python 3.9+ from python.org (Add to PATH)
- Streamlit not opening → Visit `http://localhost:8501` manually
- Model/Ollama error → Run `ollama serve` manually once
- Missing dependency →

```
venv\Scripts\activate  
pip install -r resources\requirements.txt
```

■ 7. TIPS

- To update all dependencies:
 `pip install -r resources\requirements.txt --upgrade`
- The folder is portable – just re-run `first_time_run.bat` on a new PC.

■ 8. SUMMARY

Step	Action	Run
1■	Setup venv, install dependencies	<code>first_time_run.bat</code>
2■	Launch dashboard	<code>run.bat</code>
3■	Update dependencies	<code>pip install -r ...</code>

Now you're ready to explore your AI-powered Data Dashboard!

■ Just run "run.bat" and start exploring! ■