

■ 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](https://www.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! ■