🌾 Commodity Price & Weather Dashboard — User Manual

Welcome!
This guide will help you understand how to use the dashboard to explore commodity prices alongside weather and pollution data. It's designed for **farmers, traders, analysts, and policy makers**.

🖥️ What This Dashboard Does

It helps you **analyze how weather and air quality affect crop prices**.
You can filter the data and view interactive charts based on:

- 📍 District
- 🌾 Commodity
- 📅 Date Range

🔍 Step-by-Step: How to Use

1. Use the Left Sidebar

Filter the data shown in the dashboard:

Filter	Description
District	Select a specific district or "All"
Commodity	Choose a crop to analyze or "All"

⛔ If no data matches your filters, a warning will appear.

📊 Understanding the Dashboard Sections

📌 1. Key Indicators

Quick summary of the selected data:

- 🌡️ Average Temperature (°C)
- 🧪 Average PM2.5 Level (pollution)
- 💧 Average Humidity
- 💰 Average Modal Price (₹)

📌 2. Modal Price by Market

A bar chart showing:

- Average price of a commodity
- Comparison across local markets

📤 **Tip**: Use the dropdown to select a commodity and compare prices between markets.

📌 3. Temperature vs Price

A bubble chart showing:

- Relationship between temperature and crop price
- Each point is a record from your selected data

🎯 Helps see if higher temps affect prices.

📌 4. PM2.5 vs Price

A similar chart that shows:

- How air pollution might affect pricing
- Color-coded by commodity

📌 5. District-wise Price Distribution

A bar chart:

- Shows **average modal price per district**
- Helps you spot high- or low-price regions

📌 6. Raw Data Table

See all the data you're exploring in a clean table:

- Includes temperature, humidity, pollution, and price
- Sorted by latest date

📝 **You can scroll or download data for further analysis.**

📆 Last Updated

See the last time the dashboard data was refreshed.
This ensures you're working with the most recent information.

📎 Need Help?

For feedback or support, contact:
📧 **rohan07vaidya@gmail.com**

🧾 Example Use Cases

✅ A farmer compares **tomato prices** in two districts over the last 30 days.
✅ A policymaker explores if **high PM2.5 levels** affect **wheat pricing**.
✅ A trader finds the **best district** to sell a commodity at higher prices.