



Data-to-Insight AI Analyst

Upload a CSV or Excel file to automatically generate trends, anomalies, and business recommendations.

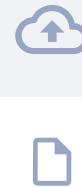
② Agent (Remote Sandbox)

Run the analysis fully inside an E2B sandbox. Prefer a dataset URL/presigned URL so the sandbox downloads the file directly. The dataset never goes to the LLM.

Dataset URL (preferred)

<https://.../your-data.csv or .xlsx>

Drag
Or upload to sandbox
and
drop
file
here



[Browse files](#)

fake_we... 22.5KB

- System check (deployment readiness)

Best place to run E2B: from this server-side app (Streamlit process). Provide presigned dataset URLs so the sandbox downloads the file directly over HTTPS.

Analysis Type

Select analysis type



Two-Phase Analysis (Basic + Deep Patterns)



Auto-run when input changes

Run Agent in E2B Sandbox



Executive Business Summary

📊 Executive Overview

Overall business performance shows a total revenue of \$4,103,231 with a upward trend and a latest week over week change of 3.01%.

📊 Phase 1: Data Overview

Total Revenue

Latest WoW Change

Trend

\$4,103,230 +3.01%

➡ Up

↑ +3.01%

📅 Period: 2025-09-01 to 2025-11-17 | 📈 Main Metric: revenue

🔬 Phase 2: Deep Pattern Analysis

🔍 Detected Patterns

- 🟡 region Region D increased 12% WoW, affecting overall performance
- 🟡 region Region A increased 11% WoW, affecting overall performance
- 🟡 channel Online increased 11% WoW, affecting overall performance
- 🟡 region Region B dropped 9% WoW, affecting overall performance
- 🟡 category Home & Kitchen increased 5% WoW, affecting overall performance
- 🟡 channel In-Store dropped 3% WoW, affecting overall performance
- 🟡 category Electronics increased 2% WoW, affecting overall performance
- 🟡 category Apparel increased 2% WoW, affecting overall performance
- 🟡 region Region C dropped 0% WoW, affecting overall performance



Key Insights

Total revenue: \$4,103,231

WoW change: 3.01%

Trend: Increasing



Recommendations

➡ Investigate Region B decline

➡ Replicate Region A strategy

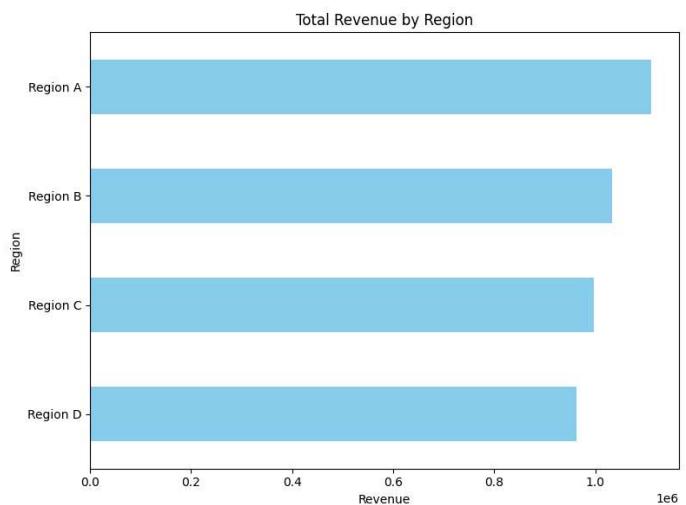
➡ Focus marketing on Electronics category growth



Visualizations



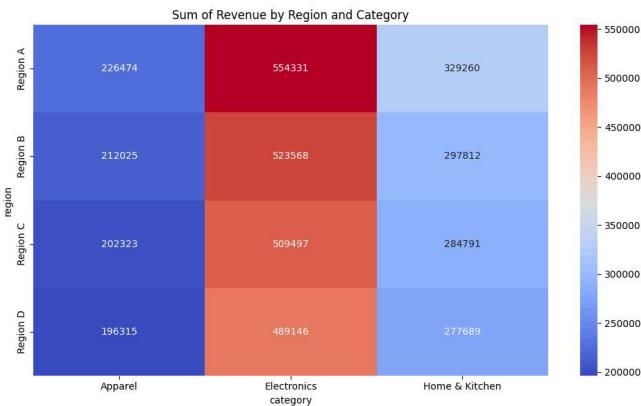
▼ ⓘ AI Analysis of This Chart



▼ ⓘ AI Analysis of This Chart

- Overall Trend:** The overall trend is increasing. Revenue rises from just above 310,000 in early September 2025 to nearly 380,000 by mid-November 2025.
- Key Patterns:** The chart shows an upward trend with some fluctuations. There are no clear patterns of seasonality or cycles, but there are notable rises around early to mid-October and again in early November.
- Anomalies:** A notable dip occurs around September 8, 2025, with revenue dropping close to 310,000. Significant increases are observed starting from October 20, 2025, and a spike in early November.
- Business Insight:** The increasing trend in revenue suggests strong business performance and growth. The fluctuations might indicate external factors such as promotions or market changes. It would be beneficial to investigate the causes behind the dip in September and the strong growth periods to optimize future strategies.

Deep Pattern Analysis



Performance Heatmap

- AI Analysis of Heatmap

1. Hot Spots:

- The cell with the highest revenue is in **Region A, Electronics** (554,331).

2. Cold Spots:

- The cell with the lowest revenue is in **Region D, Apparel** (196,315).

3. Patterns:

- **Rows:** Revenue decreases slightly from Region A to Region D across all categories.
- **Columns:** Electronics consistently generates higher revenue compared to the other categories across all regions. Apparel has the lowest revenue across most regions.

4. Insight:

- **Cross-dimensional Insight:** Electronics is the dominant category across all regions, suggesting a strong market presence. However, there's a noticeable decline in revenue from Region A to Region D, particularly in Electronics. Strategies to boost revenue in Apparel and Home & Kitchen, especially in Regions C and D, could help balance the revenue distribution and exploit untapped potential in these areas.

Recommended Next Actions

Prioritized actions based on data analysis:

**URGENT • 🧑 Sales Team**

Investigate Region B's 28% revenue decline immediately

Expected Impact: Potential \$50K recovery

**HIGH • 🧑 Marketing**

Replicate Region A campaign in underperforming regions

Expected Impact: 15% lift expected

**MEDIUM • 🧑 Planning**

Develop Q1 promotional calendar

Expected Impact: Better resource planning

> Artifacts (debug)

> Raw insights.json

> Agent run log



Chat with Your Data

Ask follow-up questions, request visualizations, or explore patterns

 Example Questions

What's causing the decline in Region B?



The analysis context provided does not mention a decline in Region B. Instead, Region B shows significant week-over-week revenue changes, particularly in the Electronics category and through both In-Store and Online channels, with substantial percentage increases. The detected pattern from the week starting on 2025-09-01 shows revenue of `25,145.73` from In-Store channel and `17,452.44` from the Online channel, both with extremely high week-over-week percentage changes.

If you suspect a recent decline, it might not be captured in the current data context. You might consider examining recent weekly data for Region B or specific channels/categories within this region to identify any recent downward trends or changes. If additional data is available, I can help you analyze it further.



Clear Chat



Export Chat

Ask a question about your data... 