



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 X

- > 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



Deep Pattern Analysis (Segment-level, Cross-dimensional)

Auto-run when input changes

Run Agent in E2B Sandbox



Phase 1: Data Overview

Total Revenue

Latest WoW Change

Trend

\$4,103,230 +3.01%

↑ +3.01%

Period: | Main Metric: revenue



Incr...

🔬 Phase 2: Deep Pattern Analysis

🔍 Detected Patterns

- 🟡 Region 'Region D' changed by 11.92% WoW
- 🟡 Channel 'Online' changed by 10.93% WoW
- 🟡 Region 'Region A' changed by 10.64% WoW
- 🟡 Region 'Region B' changed by -8.89% WoW
- 🟡 Category 'Home & Kitchen' changed by 4.77% WoW
- 🟡 Channel 'In-Store' changed by -2.78% WoW
- 🟡 Category 'Electronics' changed by 2.44% WoW
- 🟡 Category 'Apparel' changed by 1.94% WoW
- 🟡 Region 'Region C' changed by -0.22% WoW

📋 Key Insights

The main metric is 'revenue' with a total value of 4,103,231 across all weeks.

The overall revenue trend is increasing with a latest week-over-week (WoW) increase of 3.01%.

The biggest segment change was region 'Region D' with a WoW change of 11.92% in the latest week.

Region Region A saw a significant spike of 10.64% WoW.

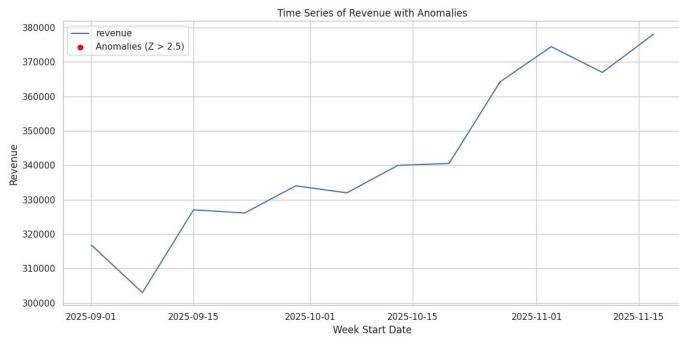
Region Region D saw a significant spike of 11.92% WoW.

🎯 Recommendations

➡️ Investigate drivers of rapid growth in Region A to replicate strategies in other regions.

➡️ Investigate drivers of rapid growth in Region D to replicate strategies in other regions.

📊 Visualizations



📈 Trend Over Time (with Anomalies)

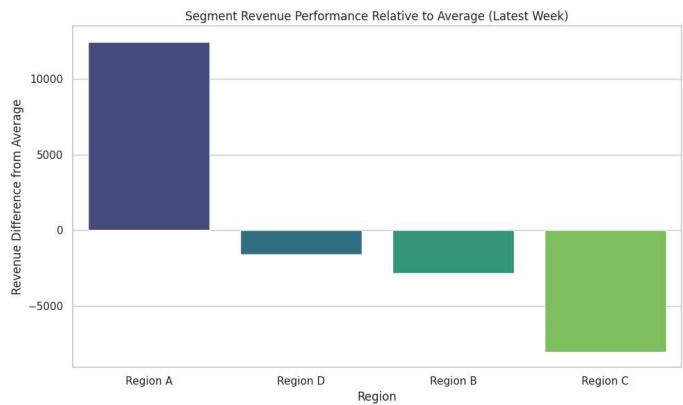
⌄ ⚡ AI Analysis of This Chart

1. Overall Trend

The overall trend in the chart indicates an increasing revenue linearly from early September to mid-November 2025, moving from around 310,000 to 380,000.

2. Key Patterns

The chart shows a series of fluctuations with a noticeable drop around mid-September followed by a steady increase. There is no obvious seasonality or cyclical pattern.



📊 Segment Performance

⌄ ⚡ AI Analysis of This Chart

1. Top Performers:

- Region A is leading with a revenue difference from average exceeding 10,000.

2. Underperformers:

- Region C is lagging with a revenue difference of approximately -5,000.

3. Gaps:

- The gap between the best (Region A) and worst (Region C) is over 15,000.

3. Anomalies

An anomaly is indicated in mid-November 2025, where the revenue shows an unusual spike beyond the typical trend line, marked by a red dot.

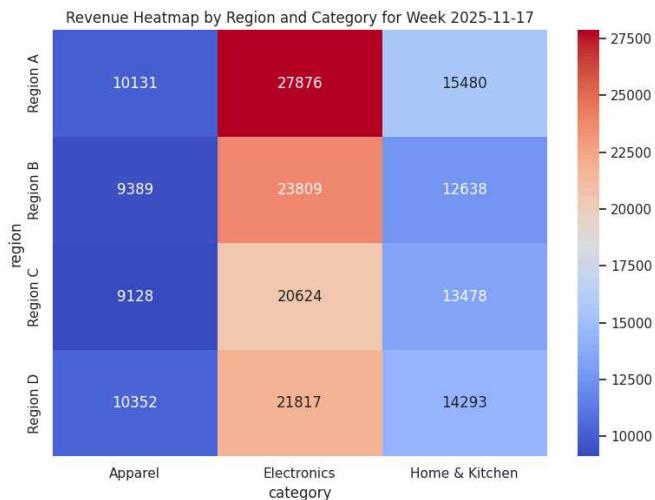
4. Business Insight

The overall increase in revenue suggests a positive growth trajectory, which could be due to successful business strategies or market demand. The anomaly in November indicates a potential high-impact event, like a promotion or new product launch, which could be strategically leveraged to sustain further growth.

4. Recommendation:

- Investigate strategies and practices in Region A for possible implementation in other regions.
- Conduct a detailed analysis of Region C to identify and address the factors contributing to underperformance.

Deep Pattern Analysis



▼ ⚡ AI Analysis of Heatmap

1. Hot Spots:

- The highest value is 27,876 in Region A for the Electronics category.

2. Cold Spots:

- The lowest value is 9,128 in Region C for the Apparel category.

3. Patterns:

- **Electronics Column:** Consistently high values across all regions, indicating strong revenue in this category.
- **Apparel Column:** Uniformly lower values compared to Electronics.
- **Home & Kitchen Column:** Moderate values, with Region A having the highest figure in this category.

4. Insight:

- **Cross-dimensional Insight:** Electronics generate the highest revenue across most regions, suggesting a strong market presence or demand in this category. Region A leads in Electronics, indicating a potential focus on this category to drive higher revenue. Conversely, Apparel is consistently the lowest, which may suggest exploring strategies to boost sales in that category.

➤ Artifacts (debug)

➤ Raw insights.json

➤ Agent run log

