📈 Data-to-Insight AI Analyst

Upload a CSV or Excel file to automatically generate trends, anomalies, and business recommendations.
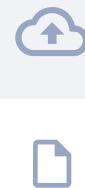
😃 Agent (Remote Sandbox)

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)

Or upload to sandbox
Drag and drop file here

| https://.../your-data.csv or .xlsx |

☁️ [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   ⑦

| 📊 Basic Data Analysis (Trends, WoW, Anomalies)   ⌄ |

☑️ Auto-run when input changes

[Run Agent in E2B Sandbox]

📋 Key Insights

> The total revenue peaked at 378,029 in the latest week.

The Week-over-Week revenue change is 3.01%.

The revenue trend over time is increasing with slope 898.39.
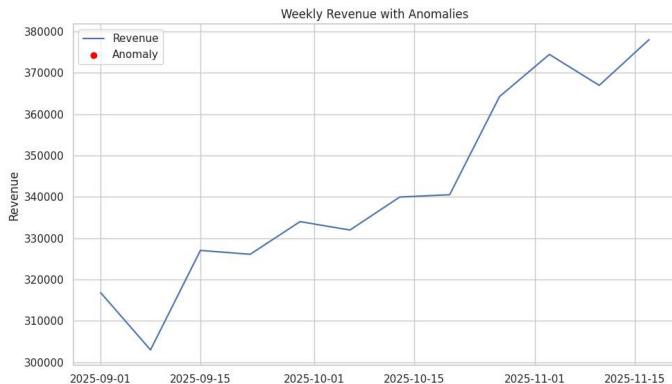
Anomalies were detected in 0 week(s), highlighted in red on the chart.

The top group mover between the last two weeks is ('Region A', 'Electronics', 'Online') with a change of 10,090 in revenue.
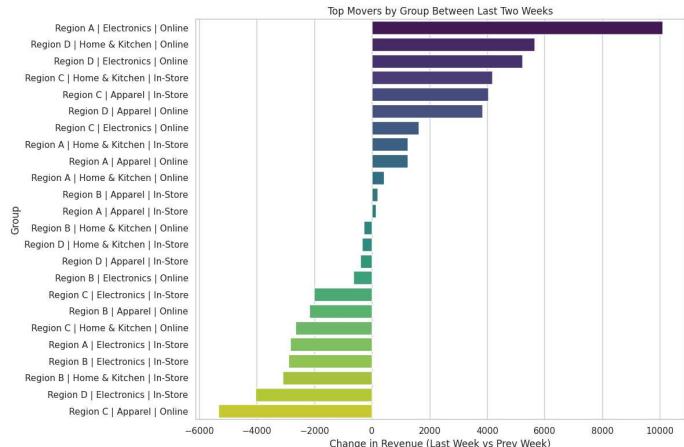
🎯 Recommendations

➡️ Consider increasing marketing efforts for the top performing groups to sustain revenue growth.

📊 Visualizations

📈 Trend Over Time (with Anomalies)

📊 Segment Performance

⊚ AI Analysis of This Chart

1. **Overall Trend**: The overall trend is increasing. From early September to mid-November 2025, the revenue shows a significant upward trajectory.

⊚ AI Analysis of This Chart

1. Top Performers:

- **Region A | Electronics | Online**: Highest increase in revenue (~+9500).

2. Underperformers:

2. **Key Patterns**: There are fluctuations, but no evident seasonality or cycles are visible. The revenue appears to rise steadily with a few brief periods of decline.

3. **Anomalies**: An anomaly is visible in mid-September 2025, where there is a sharp dip in revenue reaching close to 300,000 before recovering.

4. **Business Insight**: The increase in revenue suggests positive business growth, possibly due to successful strategies or market conditions. The anomaly indicates a potential issue or external factor impacting revenue temporarily, which should be investigated further to prevent future occurrences.

- **Region C | Apparel | Online**: Significant decrease in revenue (~-6000).
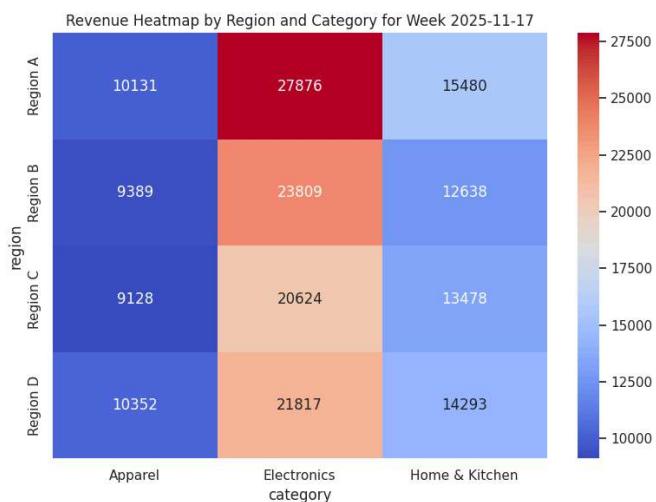
3. Gaps:

- Difference between best and worst segment is approximately 15,500 units in revenue change.

4. Recommendation:

- Investigate successful strategies in Region A | Electronics | Online and apply to underperforming segments.
- Conduct a detailed analysis of Region C | Apparel | Online to identify issues, such as product offerings, customer engagement, or market conditions, and implement corrective actions.

🔬 Deep Pattern Analysis

Revenue Heatmap by Region and Category for Week 2025-11-17

region	Apparel	Electronics	Home & Kitchen
Region A	10131	27876	15480
Region B	9389	23809	12638
Region C	9128	20624	13478
Region D	10352	21817	14293

📖 Performance Heatmap

▼ 🤖 AI Analysis of Heatmap

Certainly! Here's a detailed analysis of the heatmap:

1. **Hot Spots:**

   - The hottest spot is in Region A, Electronics category with a value of 27,876.
   - Other high values are in Region B, Electronics (23,809) and Region D, Electronics (21,817).

2. **Cold Spots:**

   - The coldest spot is in Region C, Apparel category with a value of 9,128.
   - Other low values are in Region B, Apparel (9,389) and Region A, Apparel (10,131).

3. **Patterns:**

   - **Row Patterns:**
     - For all regions, the Electronics category consistently shows the highest values.
   - **Column Patterns:**
     - Apparel has the lowest values across all regions.
     - There is a trend of increasing values from Apparel to Electronics in all regions.
   - **Clusters:**
     - Electronics tends to be a strong performing category across all regions.
     - Apparel is consistently the weakest category across all regions.

4. **Insight:**

   - The data suggests that the Electronics category performs the best across all regions, indicating a strong market

preference or demand for Electronics products irrespective of the geographic location.

- Apparel consistently underperforms, suggesting potential issues or lower demand in that category across regions.

- The Home & Kitchen category shows moderate performance, acting as a middle ground between the lowest (Apparel) and highest (Electronics) values.

- Strategic focus on Electronics could drive higher overall revenue, and action might be needed to boost or reevaluate strategies for Apparel.

This analysis provides insight into how product categorization affects performance across different regions, which could inform targeted marketing and inventory decisions.

> Artifacts (debug)

> Raw insights.json

> Agent run log