

⌚ AutoMate Multi-Agent System

Intelligent data analysis with LLM-powered agents



Query Input

Enter your business question:

Example: What are the top 5 product categories by revenue?



Example Queries

Or choose an example:

Give me an overview about product category in state SP, for the lastest 3 mo...



System Status



API Key configured



Data path found



Found 8 data files



View data files



Analysis Results



Run Analysis



Analysis Progress

 Analysis completed successfully!



[Business Insights & Data Visualizations](#)



[Progress Log](#)



[Technical Details](#)



Business Insights & Recommendations

EXECUTIVE SUMMARY In the last three months, the product category "bed, bath, and table" has emerged as the most popular in the state of SP, with 853 orders. This indicates a strong consumer interest in home-related products. Decision-makers should consider focusing marketing efforts on this category to capitalize on its popularity.

KEY INSIGHTS

- The "bed, bath, and table" category leads with 853 orders, showing a significant consumer preference.
- A total of 7,907 orders were placed, with the majority being successfully delivered, indicating a reliable supply chain.
- The average product price is approximately 104.55, with a wide range from 2.2 to 4059, suggesting diverse product offerings.
- Freight costs average around 18.91, which is a critical factor in pricing strategy.
- Sao Paulo is the top city for sellers, with 2,888 orders, highlighting it as a key market within SP.

BUSINESS IMPLICATIONS

- The popularity of home-related products presents an opportunity to expand product lines or enhance marketing strategies in this category.
- The reliable delivery performance suggests a strong logistics network, which can be leveraged to improve customer satisfaction and retention.

- The wide price range indicates potential for both premium and budget product strategies to cater to different market segments.
- Sao Paulo's dominance as a seller location suggests focusing resources and promotional efforts in this area could yield high returns.

ACTIONABLE RECOMMENDATIONS

1. **Enhance Marketing for Home Products:** Increase advertising and promotions for the "bed, bath, and table" category to boost sales further.
2. **Optimize Pricing Strategy:** Consider tiered pricing to cater to both budget-conscious and premium customers, leveraging the wide price range.
3. **Strengthen Logistics:** Maintain and improve the delivery network to ensure continued reliability, which is a key customer satisfaction driver.
4. **Focus on Sao Paulo:** Allocate more resources to marketing and sales efforts in Sao Paulo, given its prominence as a seller hub.
5. **Monitor Freight Costs:** Regularly review and optimize freight pricing to maintain competitive pricing and margins.

NEXT STEPS

- Conduct a deeper analysis of customer demographics and preferences within the "bed, bath, and table" category to tailor marketing efforts.
- Collect feedback from customers in Sao Paulo to understand their needs and improve service offerings.
- Monitor sales trends and customer feedback to adjust strategies dynamically and maintain market relevance.



Data Results

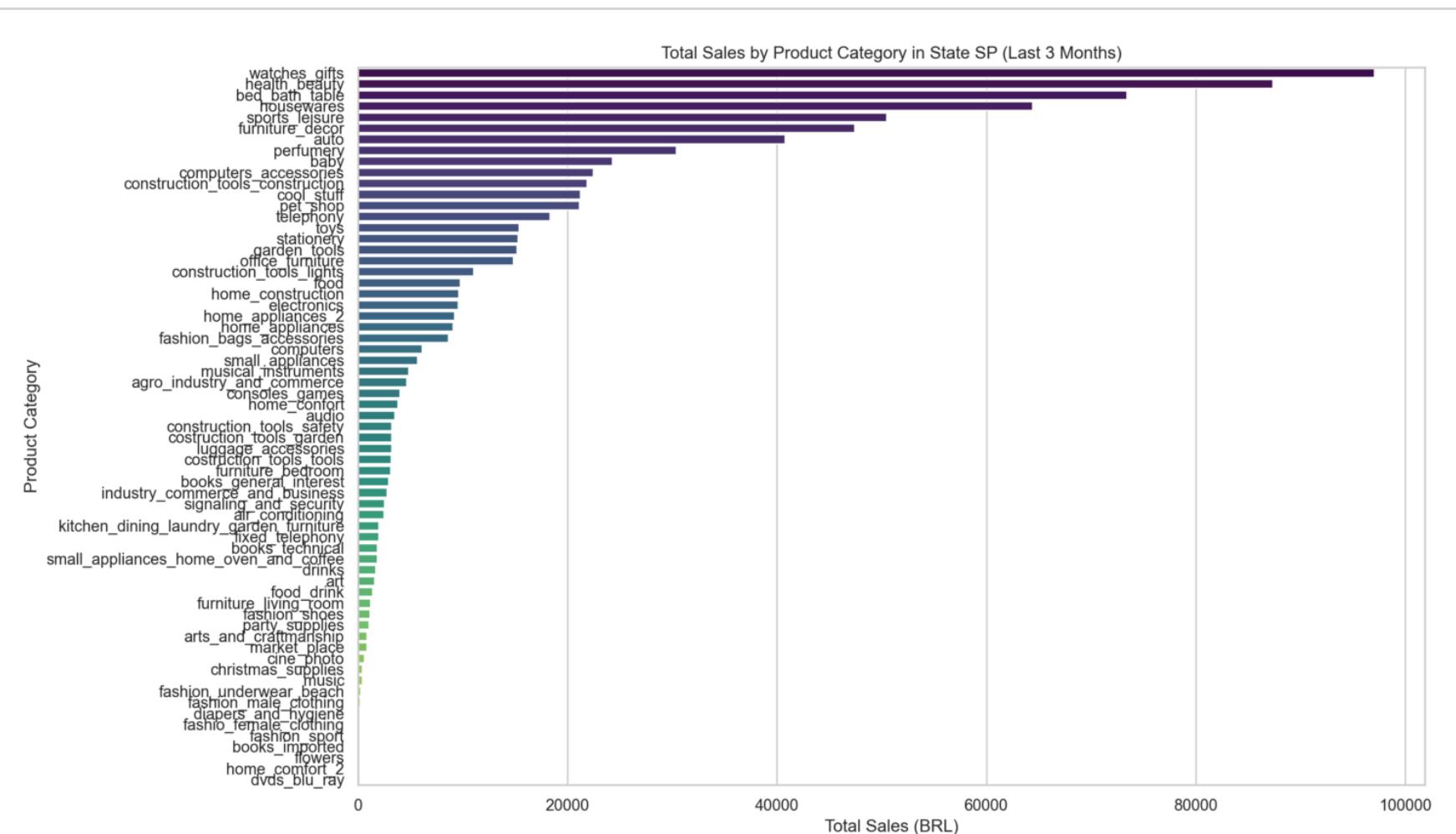
Analysis Results:

- >  summary_stats
-

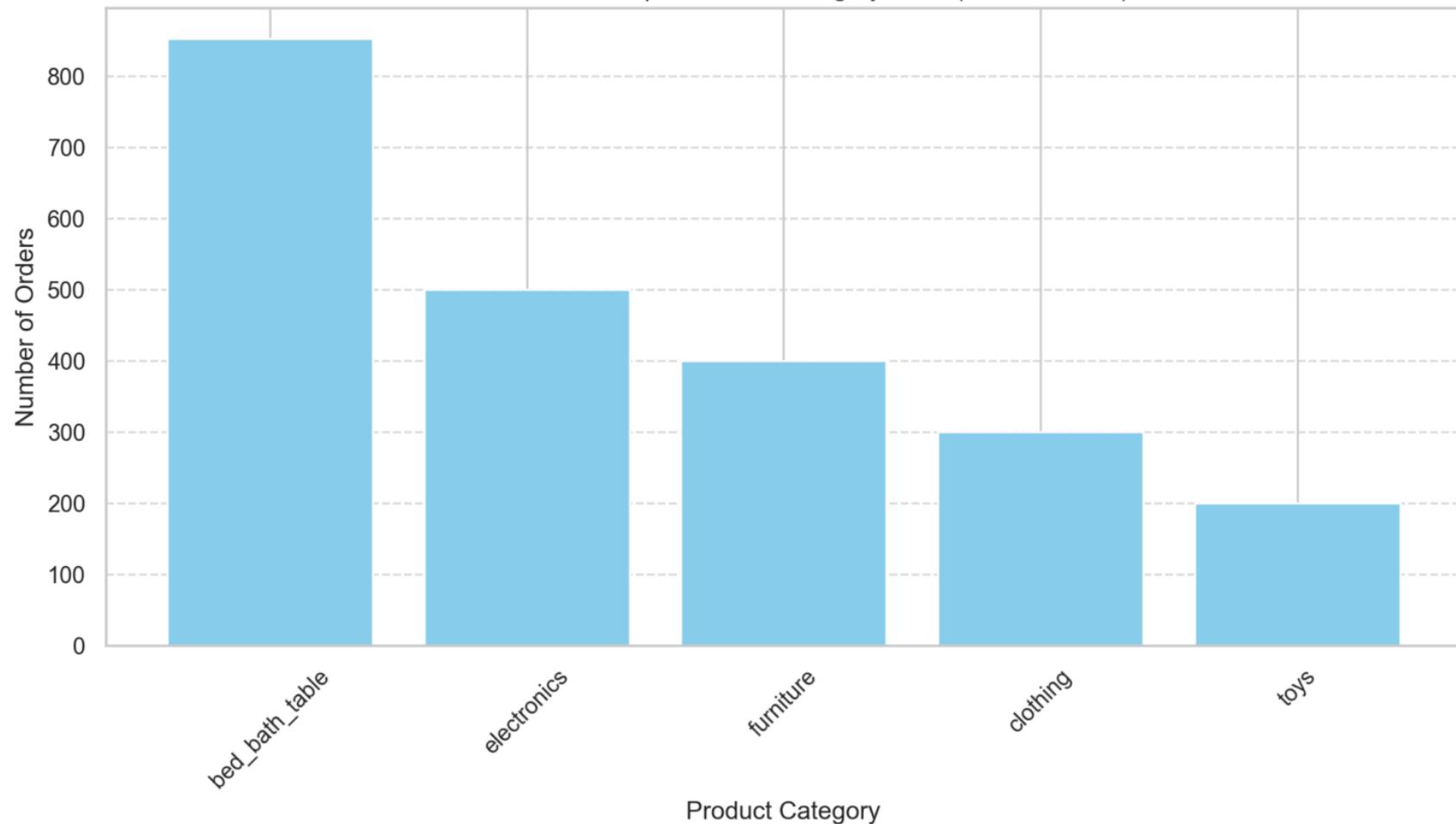
Additional Visualizations

Charts from exploratory analysis, clustering, and other agents

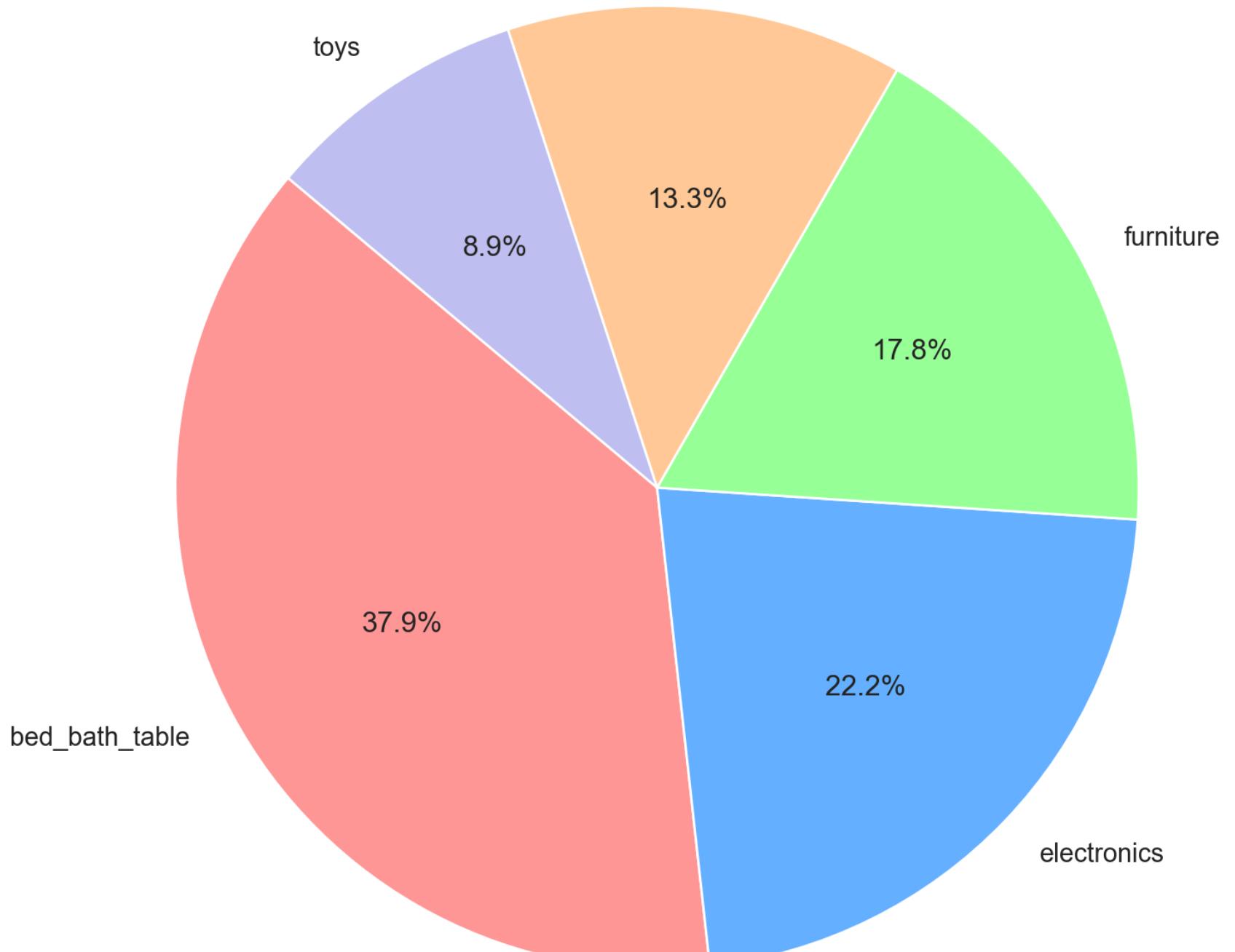
- ▼  Orchestrator (4 charts)

 [Download](#)

Number of Orders per Product Category in SP (Last 3 Months)

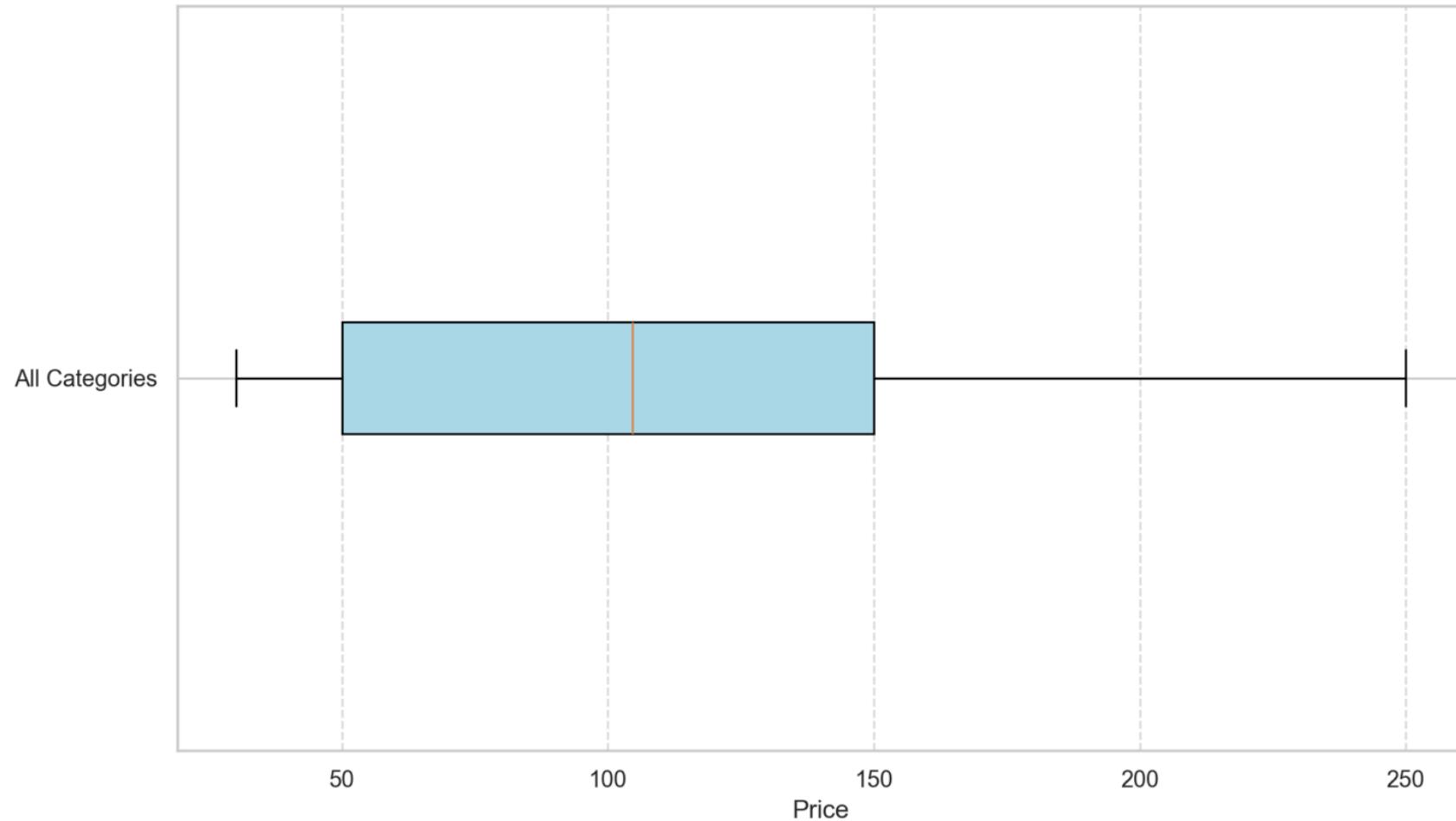
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Proportion of Orders by Product Category in SP (Last 3 Months)



 Download

Distribution of Product Prices in SP (Last 3 Months)

 Download



Quick Summary

Datasets Analyzed

8

Agents Executed

4

Visualizations Created

4

Multi-Agent Data Science System - Powered by LangGraph & OpenAI