

🤖 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:

show me Top 20 popular product categories with their orders, average price and corresponding rev... ▼

🔍 Analysis Results

🚀 Run Analysis

📊 Analysis Progress

=====



✅ Analysis completed successfully!

🎯 System Status

✅ API Key configured

✅ Data path found

📁 Found 8 data files

> View data files

Business Insights & Recommendations

EXECUTIVE SUMMARY

In the past three months, the "health_beauty" category emerged as the top performer in terms of both orders and revenue, with 1,203 orders generating \$170,188.07. The data highlights significant opportunities in the health and beauty sector, while also revealing potential growth areas in other categories like "watches_gifts" and "housewares."

KEY INSIGHTS

- Top Performer:** "Health_beauty" leads with the highest number of orders (1,203) and revenue (\$170,188.07), indicating strong consumer demand.
- High Revenue Generators:** "Watches_gifts" and "housewares" follow, with revenues of 114, 640.26and97,904.10, respectively, suggesting these categories are also popular among consumers.
- Average Price Insights:** Categories like "watches_gifts" and "cool_stuff" have higher average prices (168.34and162.89), which may contribute to their substantial revenue despite fewer orders.
- Emerging Categories:** "Sports_leisure" and "auto" show promising revenue figures (82, 010.92and70,309.18), indicating potential for growth.
- Lower Revenue Categories:** "Fashion_bags_accessories" and "food" have lower revenues (12, 531.85and10,314.90), suggesting a need for strategic marketing or product adjustments.

BUSINESS IMPLICATIONS

- Opportunity in Health and Beauty:** The strong performance of the "health_beauty" category suggests a robust market presence and potential for further investment in marketing and product expansion.
- Growth Potential in Mid-Tier Categories:** Categories like "sports_leisure" and "auto" could benefit from targeted promotions to increase their market share.
- Price Strategy Considerations:** High average prices in certain categories may limit order volume; a review of pricing strategies could optimize sales and revenue.

ACTIONABLE RECOMMENDATIONS

- Enhance Marketing for Top Categories:** Increase marketing efforts for "health_beauty" to capitalize on its popularity and drive further sales.
- Promotional Campaigns for Mid-Tier Categories:** Develop targeted promotions for "sports_leisure" and "auto" to boost visibility and attract more customers.
- Review Pricing Strategies:** Analyze pricing for high average price categories like "watches_gifts" to ensure competitiveness and maximize order volume.
- Product Line Expansion:** Consider expanding product lines in high-performing categories to capture a larger market share.

5. **Focus on Underperforming Categories:** Investigate the reasons behind lower revenues in "fashion_bags_accessories" and "food" and adjust strategies accordingly.

NEXT STEPS

- **Conduct Customer Surveys:** Gather customer feedback on preferences and satisfaction across different categories to inform product and marketing strategies.
- **Monitor Sales Trends:** Continuously track sales data to identify shifts in consumer behavior and adjust strategies in real-time.
- **Evaluate Competitor Strategies:** Analyze competitor offerings and pricing to ensure competitive positioning in the market.



Data Results

Query Results:

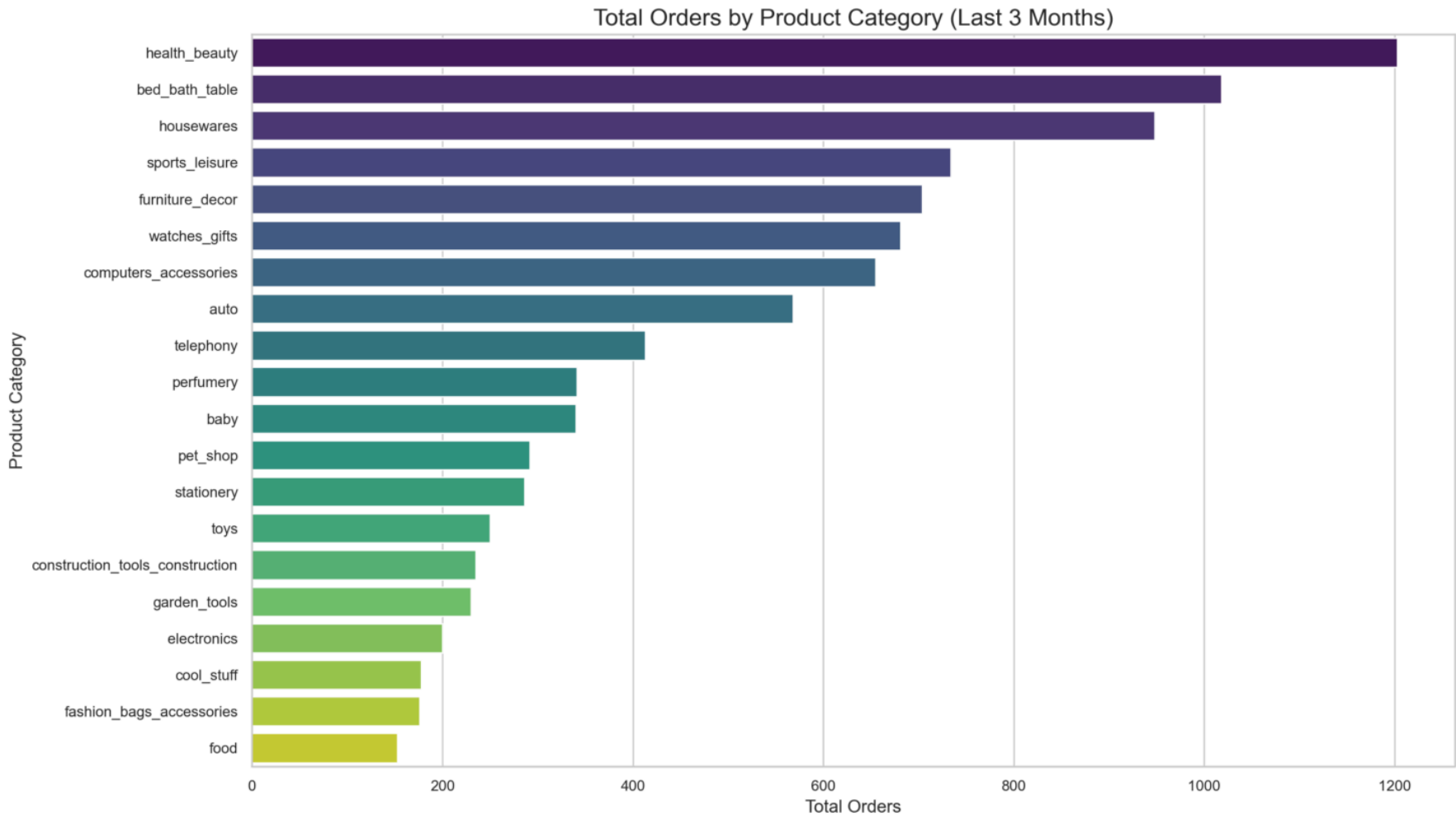
	product_category_name_english	total_orders	average_price	total_revenue
0	health_beauty	1203	141.4697	170188.07
1	watches_gifts	681	168.3411	114640.26
2	housewares	948	103.2744	97904.1
3	bed_bath_table	1018	90.9222	92558.82
4	sports_leisure	734	111.7315	82010.92
5	auto	568	123.7838	70309.18
6	furniture_decor	704	98.5022	69345.54
7	computers_accessories	655	95.8024	62750.57
8	telephony	413	136.4061	56335.71
9	perfumery	341	113.9979	38873.27

 Download Query Results (CSV)

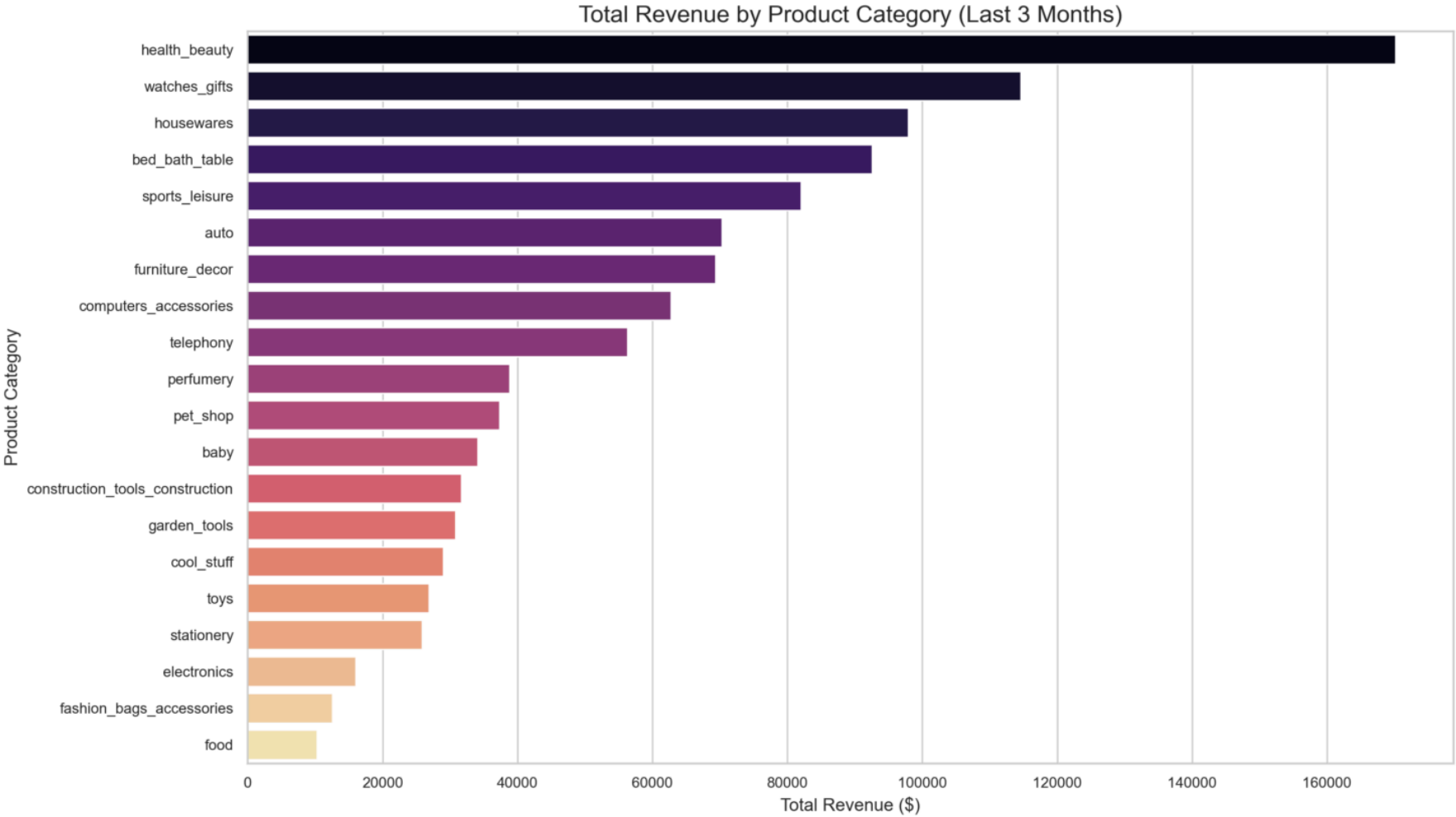
Additional Visualizations


Charts from exploratory analysis, clustering, and other agents

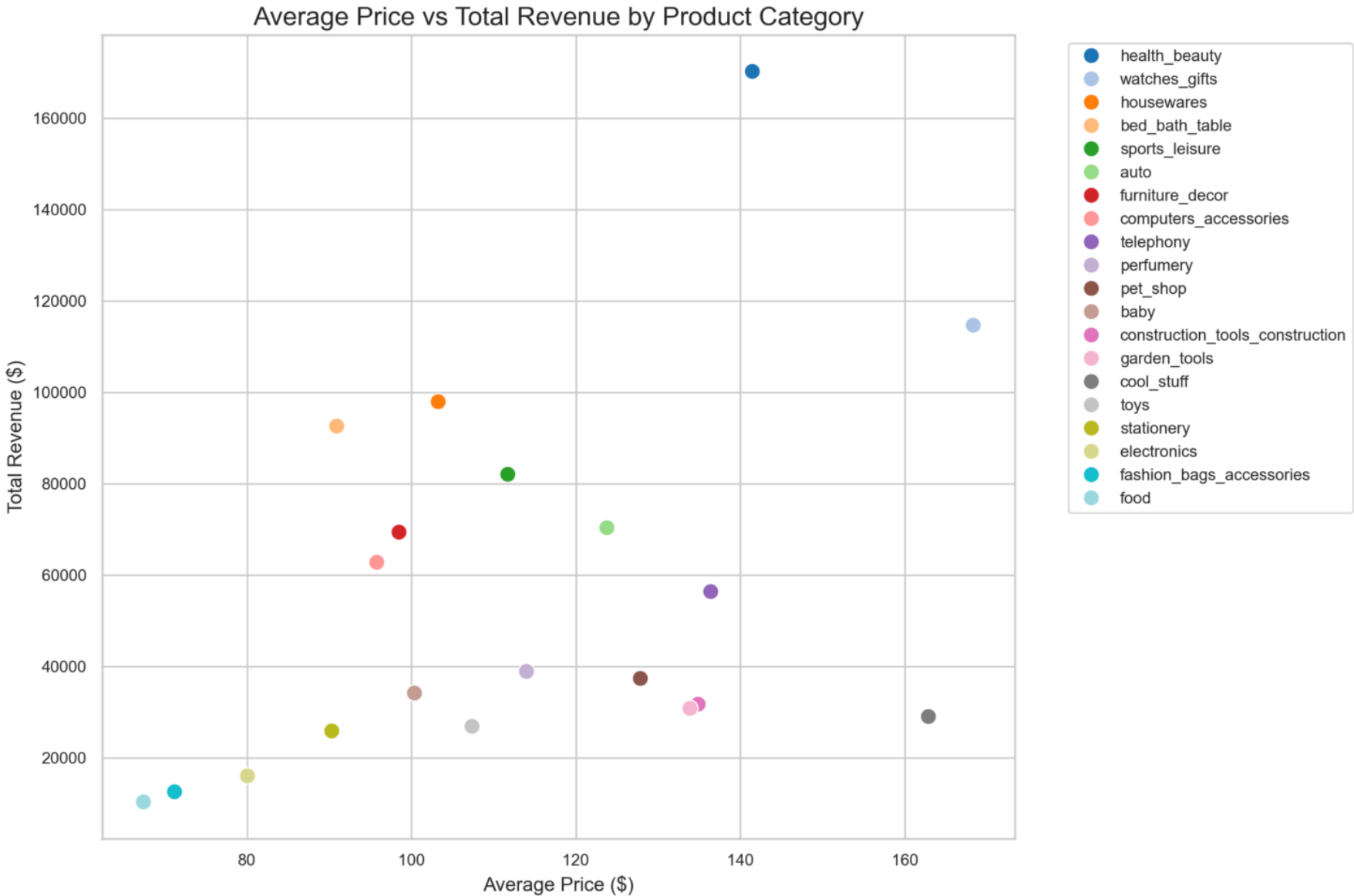
Orchestrator (3 charts)




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Quick Summary

Datasets Analyzed

8

Agents Executed

4

Visualizations Created

3

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