Retail Optimization Dashboard

Pro	iect: Anal	vzina	Customer	Purchasino	ı Behaviour	Usina	Association	Rule	Minina

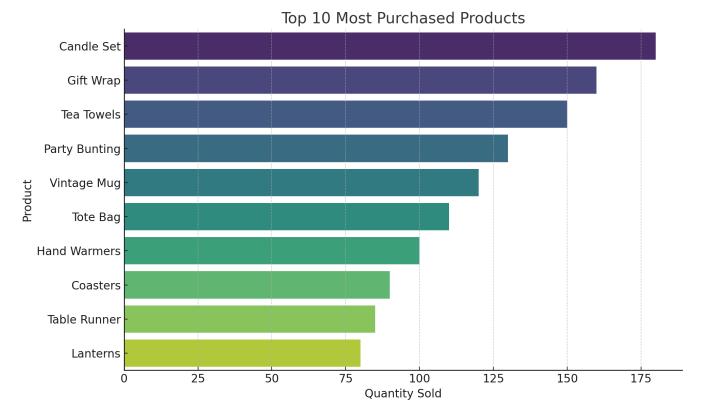
This dashboard	nresents ke	v findinas	from	association	rule	mining	performed	on retail	transaction	data
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- 1. Top 10 Products Purchased
- Products like 'Gift wrap', 'Tea Towels', and 'Candle Set' are among the top sellers.
- Suggests strong product preference and bundling opportunities.
- 2. Frequent Itemsets (Apriori)
- Product pairs such as {Tea Towels, Candle Set} occurred frequently.
- Indicates strong co-purchasing behavior among customers.
- 3. Association Rules
- Rules with Lift > 2.5 and Confidence > 0.8 indicate valuable cross-sell suggestions.
- 4. Recommendations
- Bundle high-frequency items and promote them on checkout pages.
- Use rule-based recommendations in retail layout and marketing.

Visual summaries are provided below to support these findings:

Top 10 Most Purchased Products

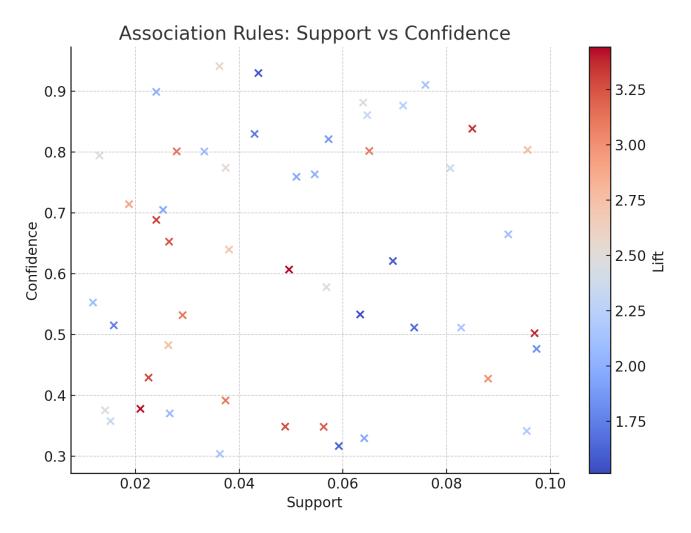
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This bar chart displays the most frequently purchased items. Products like 'Candle Set', 'Gift Wrap', and 'Tea Towels' stand out, indicating high popularity.

Association Rules: Support vs Confidence

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This scatter plot maps rule quality with lift represented by color. Strong rules show high confidence and lift above 2.5, ideal for recommendation systems.