Retail Business Performance & Profitability Analysis

Prepared By

Rohit Kumar

MCA | Data Analyst Aspirant

Project: Retail Business Profitability Dashboard

Tools Used: Power BI, SQL, Python (Pandas, Seaborn)

Key Insights

- Sub-Category Profitability: Some sub-categories consistently show negative profit margins, which indicates a need for pricing optimization or cost control measures.
- Inventory Turnover: Products with longer inventory days exhibit a weak negative correlation with profit margins, suggesting that faster turnover may improve profitability.
- Regional Performance: There are noticeable sales and profit differences across regions. Underperforming areas may benefit from localized marketing strategies or better logistics.
- Seasonal Behavior: Sales data reveals seasonal trends, with certain months showing higher volumes. This insight can help with seasonal inventory planning.
- Stock Issues: Identified slow-moving and overstocked items that contribute little to profit, tying up capital and storage.

Recommendations

- Reprice or Discontinue Loss-Making Products: Focus on trimming or improving unprofitable sub-categories.
- Improve Shipping Efficiency: Reduce shipping and processing delays to lower inventory holding time.
- **Targeted Regional Strategies:** Create promotional offers and sales campaigns tailored for specific low-performing regions.
- **Plan for Seasonal Peaks:** Use sales trend data to stock up on seasonal bestsellers ahead of demand spikes.

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