



UrbanMart Retail Optimization Analysis

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Business Background

- UrbanMart is a growing U.S. retailer
- Operating across regions, expanding product lines
- Concern: Profitability stagnant despite rising sales



Problem Statement

- Losses in some sub-categories
- Discounting practices eroding margins
- Poor visibility into regional, product, and customer performance



Project Objectives



Identify top/bottom-performing products



Segment customers by profitability



Regional sales & margin analysis



Analyze discounting impact



Recommend pricing, product, and strategy improvements

Methodology

- **Data Sources:** Sample Superstore
(Tableau public datasets)
- **Tools:** Python, Excel, Tableau
- **Activities:**
 - Data Cleaning (Excel, Python)
 - EDA (Python + Pivot Tables)
 - KPI Analysis
 - Visualization (Tableau)



Exploratory Data Analysis (EDA)

- **Top Seller:** Canon imageCLASS 2200 Copier (~\$61K in sales)
- **Low-Profit Sub-Categories:** Tables, Bookcases → Net losses
- **Most Profitable Segment:** Home Office
- **Strongest Region:** West (~\$725K)
- **South Region:** Lowest revenue, high discounting
- **Discounting impact:** Negative correlation with profit, especially >30% discounts



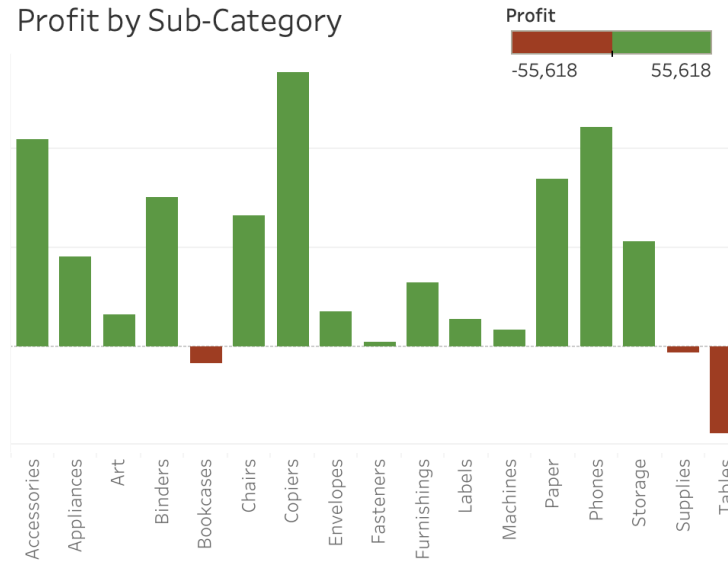
KPI Summary

KPI	Formula	Result
Gross Revenue	<code>`df['Sales'].sum()`</code>	~\$2.3M
Total Profit	<code>`df['Profit'].sum()`</code>	~\$286K
Profit Margin	<code>`Profit / Sales`</code>	~12.5%
Average Order Value (AOV)	<code>`sum(Sales) / number of orders`</code>	~\$458
Sales by Category	<code>`groupby('Category')['Sales'].sum()`</code>	Tech > Furniture > Supplies

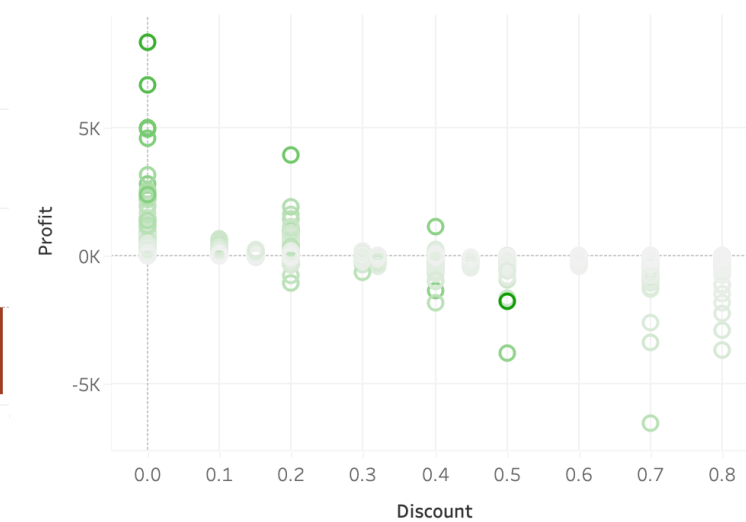
Tableau Dashboard Preview

- Interactive filtering by region, category, segment, and discount
- Helps to explore where profit is declining or where promotions are most effective

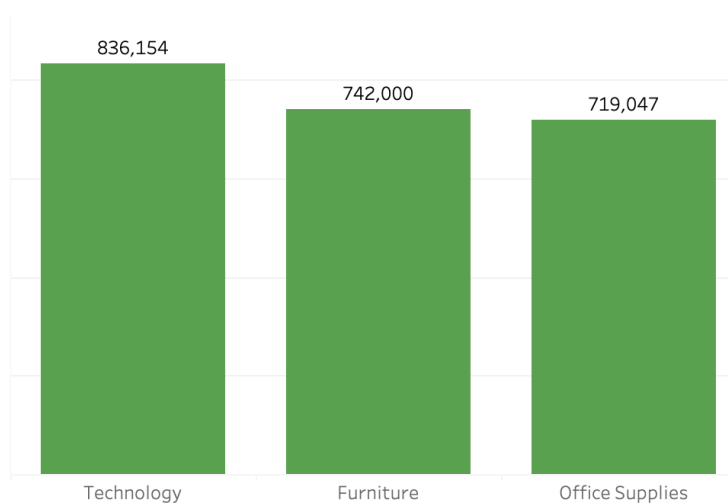
Profit by Sub-Category



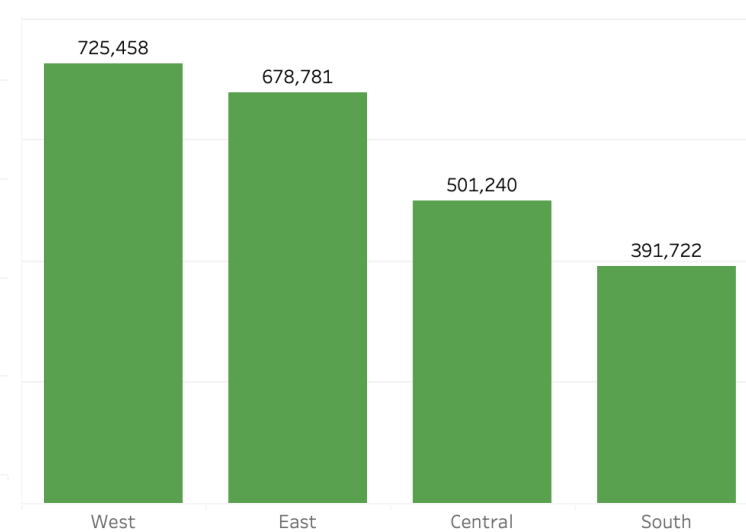
Discount vs Profit



Sales by Category



Sales by Region



Key Recommendations



Cut or revise pricing on low-margin products



Promote top-sellers (Phones, Binders, Accessories)



Focus on Home Office segment (high margin)



Cap discounts to 20% for low-margin categories



Audit the South Region and replicate West's strategy

Business Impact

- Improved **margin protection** through discount policy
- Boosted **profitability per customer** via segmentation
- Increased **regional efficiency** through focused campaigns
- Strategic use of **dashboards** to monitor KPIs in real time



Conclusion & Next Steps

- Data-driven optimization led to actionable insights
- Visual tools contribute to better decision-making
- Next steps: integrate findings into pricing + campaign strategy





**Thank you
for your
attention !**