

# Strategic Product Placement Analysis: Unveiling Sales Impact with Tableau

## Project Overview

This project explores how strategic product placement influences sales performance using interactive dashboards built in Tableau. By analyzing transactional data, customer behavior, and placement strategies, the project uncovers actionable insights that help businesses optimize merchandising decisions and maximize revenue.

## Objectives

- Evaluate the impact of product placement on sales performance.
- Identify high-performing product categories and locations.
- Analyze customer purchasing patterns and seasonal trends.
- Provide data-driven recommendations for merchandising strategies.
- Build interactive dashboards for business users and decision-makers.

## Dataset Description

The dataset includes product categories, sales revenue, profit metrics, store locations, time-based transactions, and customer segments. Data preprocessing involved cleaning, transformation, and aggregation to ensure accurate analysis.

## Methodology

- Data Cleaning & Preparation – Removed inconsistencies, handled missing values, and created calculated fields.
- Exploratory Data Analysis (EDA) – Trend analysis, category comparisons, and placement impact evaluation.
- Visualization & Dashboard Development – Interactive dashboards, heatmaps, and profitability analysis.

## Key Performance Indicators (KPIs)

- Total Sales Revenue
- Profit Margin
- Sales Growth Rate
- Category Performance Contribution

- Placement Effectiveness Score
- Customer Purchase Frequency

## Insights & Findings

Strategic placement significantly influences purchase behavior and revenue generation. Certain product categories show higher responsiveness to premium placement positions. Seasonal trends impact placement effectiveness, indicating the need for adaptive strategies.

## Business Impact

- Improved merchandising decisions through data-driven insights.
- Enhanced revenue optimization by identifying high-impact placement zones.
- Better inventory planning aligned with demand patterns.
- Increased stakeholder confidence using interactive dashboards.

## Tools & Technologies

- Tableau (Data Visualization & Dashboarding)
- Microsoft Excel / CSV (Data Source)
- Data Analysis Techniques (EDA, KPI Modeling)

## Future Enhancements

- Integration with real-time sales data sources.
- Predictive modeling for placement optimization.
- Customer segmentation using machine learning.
- Automated reporting workflows.

## Conclusion

This project highlights the importance of strategic product placement in driving sales performance. By leveraging data visualization and analytics, organizations can move from intuition-based decisions to evidence-based merchandising strategies that improve profitability and customer engagement.