Sales Performance & Customer Analytics Dashboard - Report Explanation

Project Overview

This project presents an end-to-end Power BI dashboard built using the Superstore Sales Dataset (sourced from Kaggle). The goal was to create an interactive and insightful business intelligence solution that highlights key sales metrics, customer behavior, shipping patterns, and profitability across various business segments.

Objectives

- Analyze sales and profit trends over time (YoY, QoQ)
- Identify top-performing regions, categories, and products
- Segment customers based on sales/profit behavior
- Evaluate shipping performance and discount impact
- Provide executive-level summary and deep-dive analytics per dimension

XTools & Technologies

- · Power BI Desktop
- DAX for custom KPIs, YoY/QoQ logic, profit margin, dynamic titles
- Custom JSON Theme to maintain metric-specific branding
- Bookmarks, Slicers, Conditional Formatting, Forecasting, Tooltips

📑 Report Structure & Pages

| Page | Description |
|--------------------------|---|
| Home | High-level summary with navigation buttons and top KPIs |
| Executive Summary | Overall sales/profit view with YoY % change and KPI cards |
| Regional Insights | Region-wise breakdown of performance over time |
| Sales & Profit Trends | Monthly and yearly trends for core business metrics |
| Product Performance | Visual analysis by category, sub-category, and top products |
| Shipping Analytics | Mode-wise sales, quantity, and profit analysis |
| Orders Overview | Order trends by weekday and discount brackets |

| Page | Description |
|--------------------------|---|
| Customer Analysis | Drilldown page for customer-specific performance |
| Decomposition Tree | Root cause exploration of profit drivers |
| Top 10 Metrics | Toggle-based bar charts for top products by multiple KPIs |

Key Metrics & DAX Logic

- Total Sales / Profit / Quantity: Basic aggregation
- Profit Margin: DIVIDE([Total Profit], [Total Sales], 0)
- YoY % Change: DIVIDE([This Year] [Last Year], [Last Year], 0)
- Customer Type: Categorization based on total sales with conditional icon and profit color
- **Top 10 Products**: Built using RANKX with a disconnected metric selector
- KPI Cards: Show key figures with green/red coloring based on business rules

Insights & Observations

- The **Technology** category drives the highest sales and profit margin
- Standard Class is the most used and most profitable shipping mode
- High discounts often result in negative profit, despite higher order volume
- Most customers fall in the Average Value tier, with <15% being High-Value
- West and East regions outperform others consistently

Advanced Features

- V Dynamic Customer Profile with slicer + conditional messages
- Custom Icons and Conditional Text Color for KPI insights
- VISON-based Theme with standardized colors for sales, profit, margin
- Forecasting with confidence intervals for trend analysis
- Play Axis and Decomposition Tree for exploratory analysis

📌 What I Learned

- Structuring a multi-page report with consistent UX
- Writing clean, reusable DAX for metric comparisons and toggles
- Implementing advanced features like RANKX, SAMEPERIODLASTYEAR, PARALLELPERIOD
- Using custom themes and conditional formatting to align design with insights



- Add row-level security (RLS) to limit customer-level views
- · Connect to a live or refreshable data source
- Add commentary text visuals for auto-insight generation
- Deploy the report to Power BI Service with user access roles

About Me

Name: Rahul

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Thank you for reviewing this report. I built this project to demonstrate strong Power BI fundamentals, storytelling with data, and dashboard engineering.