

2026 INTERNSHIP REPORT

Submitted to: Smart Internz, Smart Bridge Company

Track: Data Analytics with Tableau

Project Title: Strategic Product Placement Analysis: Unveiling Sales Impact with Tableau Visualization

Submitted by:

Team ID: LTVIP2026TMIDS24136

Team Leader: Kancharlapalli Tej Deep

Team member: Nallamolu Naga Divya

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Team member: Lingam Vennela

From: Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru

1. INTRODUCTION

1.1 Project Overview:

This project focuses on analyzing the effectiveness of strategic product placements within retail or e-commerce environments and visualizing their impact on sales using Tableau. By leveraging historical sales data and visual analytics, the project aims to uncover patterns, trends, and actionable insights that inform optimal product positioning strategies to maximize revenue.

Objectives:

- Analyze sales performance based on different product placement strategies.
- Identify high-performing placement zones (e.g., end-caps, eye-level shelves, homepages).
- Create interactive Tableau dashboards to visualize placement vs. sales correlations.
- Provide actionable recommendations for inventory and layout optimization.

Scope:

In-Scope:

- Data cleaning and preparation of sales and product placement data.
- Exploratory data analysis using Tableau.
- Creation of dashboards illustrating sales trends, heatmaps, and product performance by location.
- Insights and reporting for stakeholders on placement effectiveness.

Out-of-Scope:

- Real-time placement optimization system development.
- Hardware implementation for in-store product tracking.

Timeline:

- Week 1–2: Data collection and preprocessing
- Week 3–4: Exploratory data analysis and initial dashboard development
- Week 5: Insights generation and final dashboard enhancements
- Week 6: Report preparation and presentation

Key Stakeholders:

- Team Leader: Kancharlapalli Tej Deep
- Team member: Nallamolu Naga Divya
- Team member: Malireddy Priyanka Reddy
- Team member: Lingam Vennela

End Users: Marketing and Sales Teams, Inventory Managers

Tools & Technologies:

- Tableau for data visualization
- Excel/SQL/Python for data preprocessing (optional)
- Retail sales and placement datasets

Risks and Dependencies:

- Risk: Incomplete or inconsistent placement data
- Mitigation: Work with stakeholders to define placement tags clearly
- Dependency: Timely access to historical sales and product layout data

1.2 purpose:

The purpose of the "**Strategic Product Placement Analysis: Unveiling Sales Impact with Tableau Visualization**" project is to **evaluate how product placement strategies influence sales performance** and to **present these insights through interactive Tableau dashboards**.

By understanding the relationship between **where products are placed** (e.g., shelf level, store zone, website layout) and **how well they sell**, the project aims to:

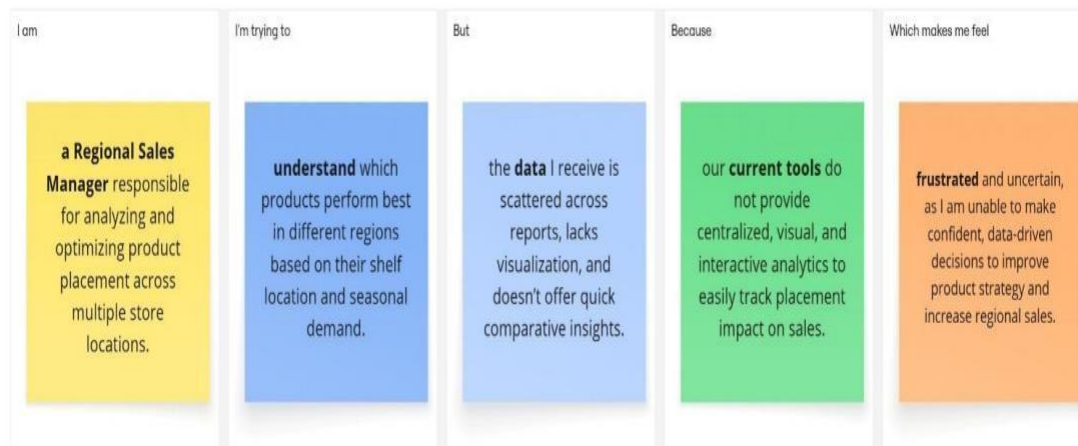
- Help businesses **optimize product positioning** to increase visibility and drive higher sales.
- Provide **data-driven insights** that support strategic marketing, merchandising, and inventory decisions.
- Enable stakeholders to **interactively explore sales trends** and identify opportunities for improving product placement effectiveness.

In essence, the project bridges the gap between **visual analytics** and **retail strategy**, empowering decision-makers with clear, actionable data to enhance product performance through smarter placement.

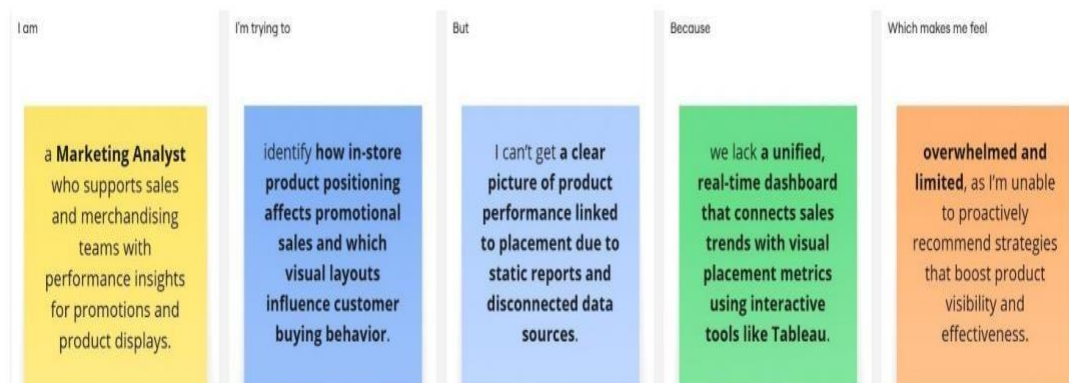
2. IDEATION PHASE:

2.1 Problem Statement:

Problem Statement 1: Regional Sales Manager in a Retail Chain

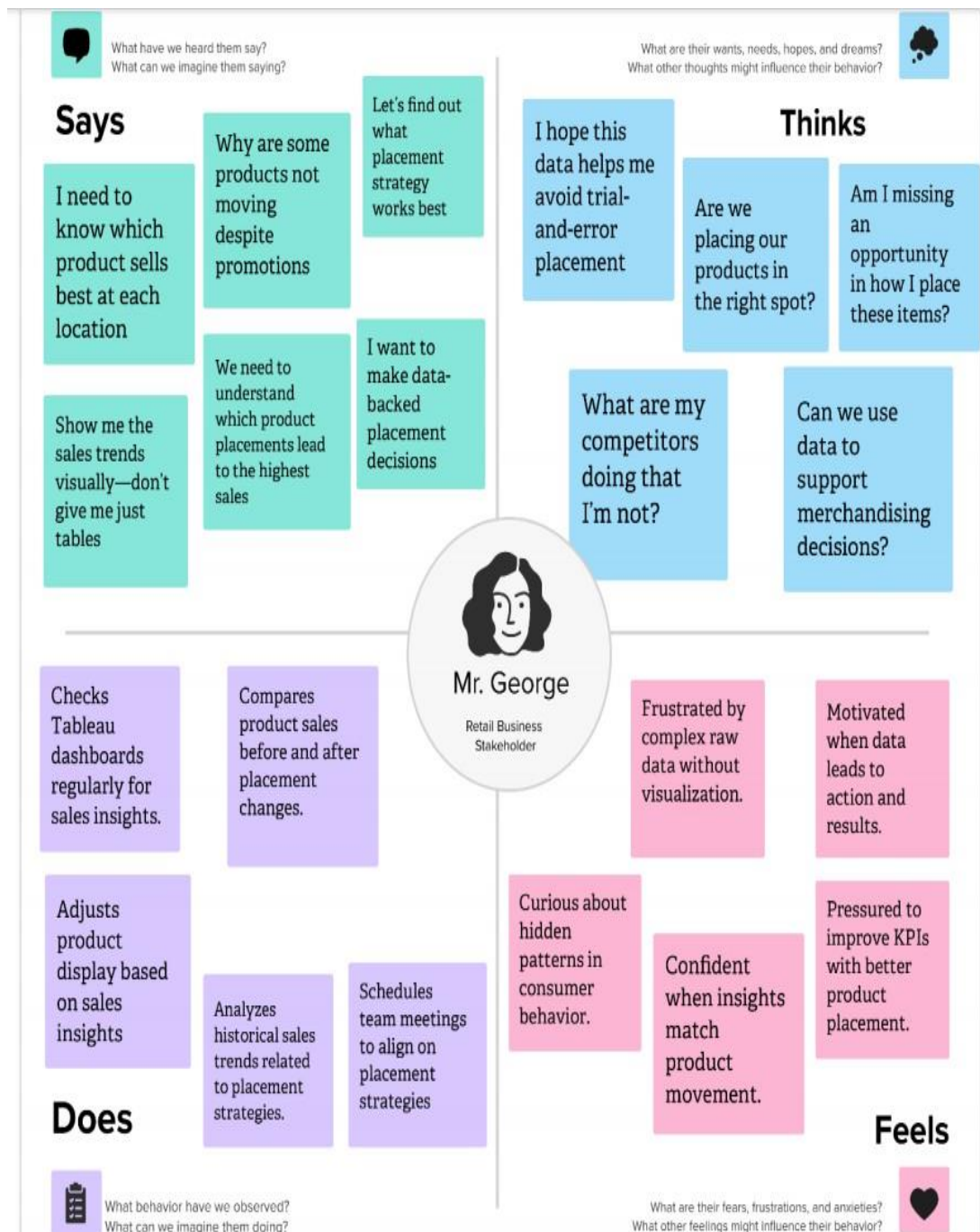


Problem Statement 2: Marketing Analyst at a Fast-Moving Consumer Goods (FMCG) Company



Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1: Regional Sales Manager in a Retail Chain	a Regional Sales Manager responsible for analyzing and optimizing product placement across multiple store locations.	understand which products perform best in different regions based on their shelf location and seasonal demand.	the data I receive is scattered across reports, lacks visualization, and doesn't offer quick comparative insights.	our current tools do not provide centralized, visual, and interactive analytics to easily track placement impact on sales.	frustrated and uncertain, as I am unable to make confident, data-driven decisions to improve product strategy and increase regional sales.
PS-2: Marketing Analyst at a Fast-Moving Consumer Goods (FMCG) Company	a Marketing Analyst who supports sales and merchandising teams with performance insights for promotions and product displays.	identify how in-store product positioning affects promotional sales and which visual layouts influence customer buying behavior.	I can't get a clear picture of product performance linked to placement due to static reports and disconnected data sources.	we lack a unified, real-time dashboard that connects sales trends with visual placement metrics using interactive tools like Tableau.	overwhelmed and limited, as I'm unable to proactively recommend strategies that boost product visibility and effectiveness.

2.2 Empathy Map Canvas:



2.3 Brainstorming:

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Template

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare
 1 hour to collaborate
 2-8 people recommended

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal**
Think about the problem you'd be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the worksheets to prepare to run a happy and productive session.

Open archive

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

PROBLEM

How might we help sales and marketing teams easily understand the impact of product placement on sales using clear and interactive Tableau dashboards?

Key rules of brainstorming

To run a smooth and productive session

- Stay in topic
- Deferring judgment
- Go for volume
- Encourage wild ideas
- Listen to others
- If possible, be visual

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Harshita

- Create heat maps to visualize top-performing products by region.
- Build a filterable Tableau dashboard by store, category, and time.
- Integrate sales trend lines before and after placement changes.
- Highlight underperforming SKUs with color-coded alerts.

Narendra

- Include competitor benchmark data for placement performance.
- Design a "What-If" scenario tool in Tableau to simulate placement changes.
- Add a summary card showing key performance metrics (KPIs).
- Embed a recommendation engine based on sales insights.

Surya

- Use interactive tooltips to show product placement info on hover.
- Organize dashboard with clean navigation tabs (Sales, Placement, Trends).
- Add icon-based visuals to improve user experience.
- Apply conditional formatting to highlight trends visually.

Hemanth

- Schedule automatic data refreshes for real-time dashboards.
- Set up user access levels for different teams (sales, marketing, execs).
- Add a feedback form within dashboard for user suggestions.
- Link Tableau reports to email updates for stakeholders.

3

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Interactive Visualization & UX

- Create heat maps to visualize top-performing products by region.
- Use interactive tooltips to show product placement info on hover.
- Organize dashboard with clean navigation tabs (Sales, Placement, Trends).
- Apply conditional formatting to highlight trends visually.
- Add icon-based visuals to improve user experience.

Performance Monitoring

- Include competitor benchmark data for placement performance.
- Design a "What-If" scenario tool in Tableau to simulate placement changes.
- Schedule automatic data refreshes for real-time dashboards.

Stakeholder Access & Feedback

- Link Tableau reports to email updates for stakeholders.
- Add a feedback form within dashboard for user suggestions.
- Set up user access levels for different teams (sales, marketing, execs).

Analytics Features & Tools

- Add a summary card showing key performance metrics (KPIs).
- Embed a recommendation engine based on sales insights.
- Integrate sales trend lines before and after placement changes.
- Build a filterable Tableau dashboard by store, category, and time.

3.2 Solution Requirement:

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data Gathering	Collect sales, price, promotion, and product placement data from retail databases.
FR-2	Data Cleaning & Preparation	Remove duplicates, handle missing values, and normalize data for consistency.
FR-3	Visualizations	Create Unique Visualizations , for example: <ul style="list-style-type: none">• Avg Sales Volume vs Product Category• Create Competitor Price vs Price comparison• Avg Sales Volume by Product Category by Position• Consumer Demographics vs Sales Volume• Develop Product Category vs Price
FR-4	Dashboard Development	Create interactive dashboards in Tableau.

Non-functional Requirements:

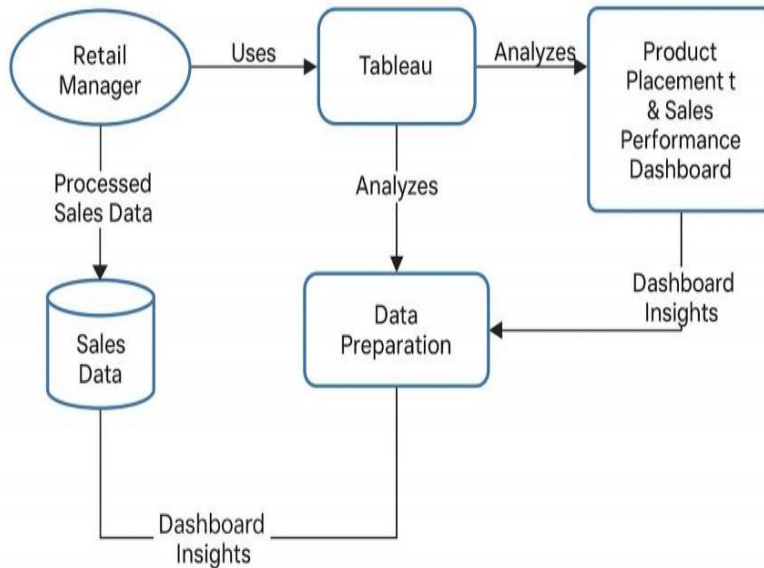
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard must be user-friendly with intuitive navigation, filters, and clear visualizations.
NFR-2	Security	Ensure role-based access, data encryption, and secure connections (SSL/HTTPS).
NFR-3	Reliability	The solution should consistently deliver accurate and updated insights without failure.
NFR-4	Performance	Dashboards must load within 5 seconds and support quick interactions with filters.
NFR-5	Availability	The dashboard should be available 24/7 with minimal downtime (<1% monthly).
NFR-6	Scalability	The system must handle growing data volumes and users without degrading performance.

3.3 Data Flow Diagram:

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Retail Manager	Interactive Dashboard	USN-1	As a Retail Manager, I want to view product sales by store and category so that I can understand placement effectiveness.	Able to filter sales by store, product, and region with charts updating dynamically.	High	Sprint-1
Business Analyst	Sales Performance Metrics	USN-2	As a Business Analyst, I want to track KPIs like revenue, units sold, and trends over time to support decision-making.	Dashboard displays KPIs in clear cards with trend lines for the past 3 months	High	Sprint-1
Marketing Analyst	Product Comparison	USN-3	As a Marketing Analyst, I want to compare product performance across placements to optimize store layouts.	Able to view side-by-side comparisons by shelf location and placement strategy.	Medium	Sprint-1
Sales Executive	Access Control	USN-4	As a Sales Executive, I want role-based access so that sensitive data is protected based on user roles.	Each user sees only data allowed for their role (Sales, Analyst, Manager)	High	Sprint-1
Data Engineer	Data Preparation and ETL	USN-5	As a Data Engineer, I want to clean and load sales data into Tableau in a structured format.	Data sources are connected, cleaned using Tableau Prep, and correctly populate the dashboard.	High	Sprint-1
Stakeholder	Summary Insights View	USN-6	As a Stakeholder, I want a quick summary view with top insights so that I don't have to explore every detail.	Summary section with 3-5 key takeaways auto-generated at top of dashboard.	Medium	Sprint-1
Analyst	What-If Scenario Tool	USN-7	As a Analyst, I want to simulate placement changes and see potential impact on sales.	Can input hypothetical placement, run simulation, and view projected KPI changes.	Low	Sprint-2

3.4 Technology Stack:

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Data Source	Raw sales data collected from POS,ERP, or CRM systems	Microsoft SQL Server / Excel / CSV
2.	Data Preparation	Cleans, transforms, and loads data into Tableau	Tableau Prep / Python / SQL
3.	Data Storage	Centralized storage for processed data	Azure SQL Database / Amazon RDS/Local System
4.	Data Visualization Tool	Creates dashboards and interactive visual reports	Tableau Desktop / Tableau Online
5.	User Interface	Web or embedded view where users interact with dashboards	Tableau Public / Embedded Tableau
6.	Access Control	Manages user roles and access levels	Tableau Server / Active Directory
7.	Report Sharing	Mechanism to export and distribute dashboard insights	Tableau Share / PDF Export / Email
8.	Feedback Collection	Collects feedback from users about the dashboard experience	Google Forms / Microsoft Forms

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Usability	Easy-to-use dashboard with filters, tooltips, and clean layout	Tableau UX / UI design best practices
2.	Performance	Fast data loading and interaction with filters	Tableau Extracts (TDE/Hyper), Optimized SQL
3.	Security	Role-based access and secure data handling	Tableau Server Permissions / HTTPS
4.	Scalability	Ability to handle large datasets and user growth	Tableau Server / Cloud Storage
5.	Availability	Ensures the dashboard is accessible 24/7 with minimal downtime	Cloud Hosting (Azure/AWS), Tableau Server
6.	Integration	Seamless connection to different data sources	Tableau Connectors / APIs
7.	Real-time Data Refresh	Automatically updates dashboards with latest data	Tableau Scheduler / Live Data Connection

4. PROJECT DESIGN:

4.1 Problem solution Fit:

Template:

Problem-Solution fit canvas 2.0 Enable data-driven in-store Product Placement Optimization for increased sales.

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Retail Sales Managers, FMCO Marketing Analysts. (Optimize in-store product placement & promotions.)	6. CUSTOMER CONSTRAINTS CC Data silos. Inadequate tools. Time limitations.	5. AVAILABLE SOLUTIONS AS Scattered, static reports. Manual spreadsheet analysis. (Lacks visualization, integration, speed.)	Explore AS, differentiate
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS J&P Analyze placement impact on sales. Optimize product visibility & strategy. Data-driven decision-making for merchandising.	9. PROBLEM ROOT CAUSE RC Lack of a specialized, integrated, visual analytics tool for product placement and sales correlation.	7. BEHAVIOUR BE Manual data gathering & merging. Basic spreadsheet analysis. Decisions based on incomplete data.	Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TR Sales reporting cycles. Performance issues, new promotions. Need for strategic insights.	10. YOUR SOLUTION SL A centralized, visual, interactive analytics platform integrating placement and sales data for actionable insights.	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE: Internal systems, email, search (analytics tools).	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE / AFTER EM Before: Frustrated, uncertain, overwhelmed. After (Desired): Confident, insightful, effective.		8.2 OFFLINE: Meetings, manual report review.	

 Problem-Solution fit canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license
 Created by Daria Popelakina / Amaltama.com

AMALTAMA

4.2 Proposed Solution:

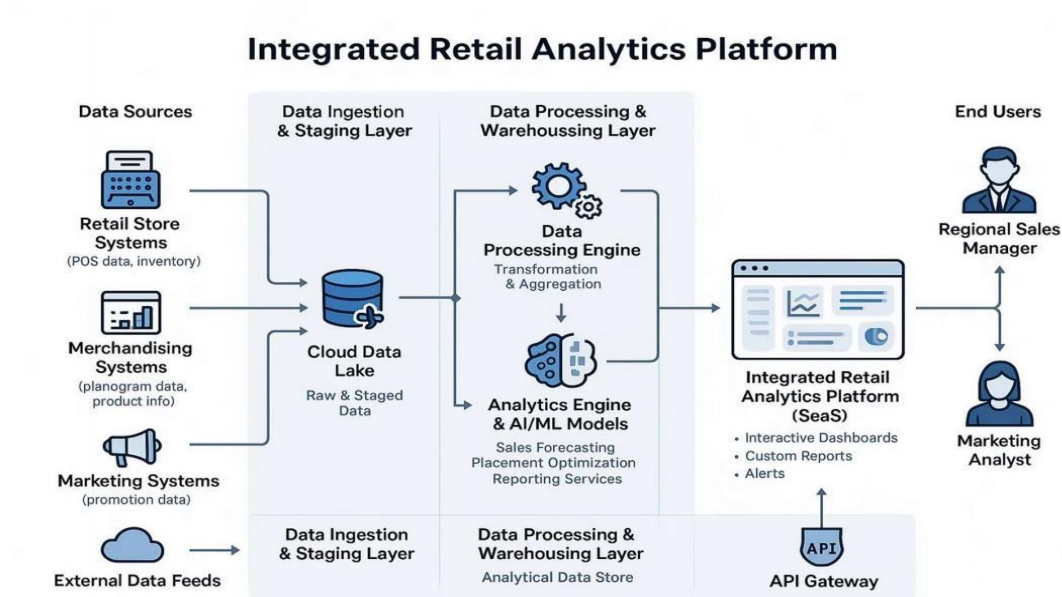
Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Inefficient product placement decisions due to fragmented data and lack of visual, actionable analytics, hindering sales optimization and strategic planning.
2.	Idea / Solution description	An Integrated Retail Analytics Platform providing centralized data, interactive visualizations, and comparative insights for optimizing product placement and sales.
3.	Novelty / Uniqueness	Unifies siloed data (sales, placement, promotions) into a single, user-friendly analytical view offering actionable, near real-time insights.
4.	Social Impact / Customer Satisfaction	Empowers users with data-driven confidence for better decisions, leading to increased sales, improved ROI, and enhanced operational efficiency.
5.	Business Model (Revenue Model)	SaaS subscription model with tiered pricing based on usage, data volume, and features.
6.	Scalability of the Solution	Cloud-native architecture ensuring scalability for data, users, and geographic expansion, with a modular design for future feature enhancements.

4.3 Solution Architecture:

Solution Architecture Diagram:

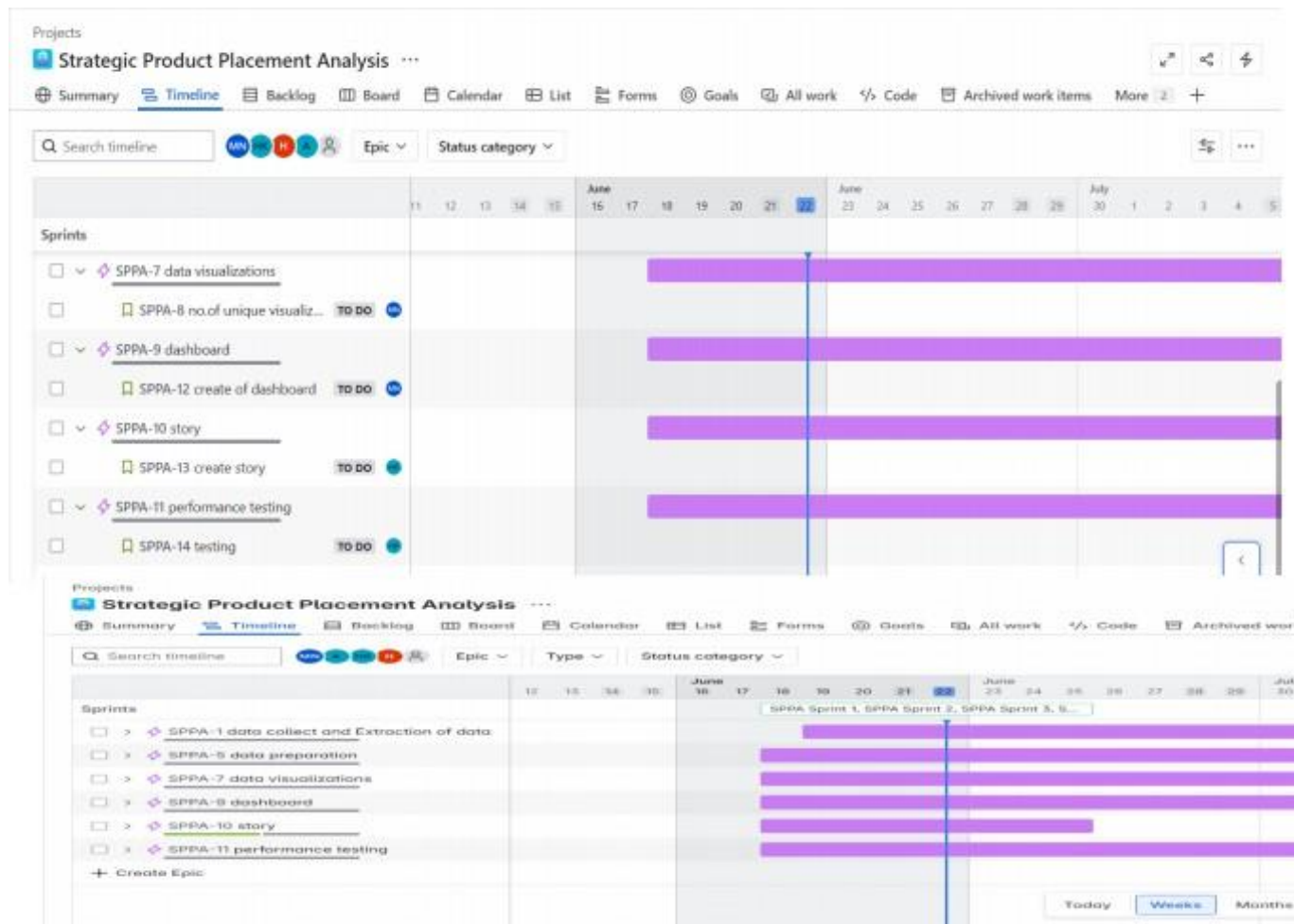


5. PROJECT PLANNING & SCHEDULING:

5.1 Project planning:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data collect and Extraction of data	USN-1	Collection of data	3	High	Tej Deep
Sprint-1		USN-2	Understanding data	2	medium	Tej Deep
Sprint-1		USN-3	Connecting the data set with tableau	2	medium	Naga Divya
Sprint-2	Data preparation	USN-1	Prepare the data for visualization	3	High	Naga Divya
Sprint-3	Data visualization	USN-1	No. of unique visualization	3	High	Priyanka Reddy
Sprint-3	Dashboard	USN-1	Create of dashboard	3	High	Priyanka Reddy
Sprint-4	story	USN-1	Create story	2	medium	Vennela
Sprint	Performance testing	USN-1	testing	2	medium	Vennela

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	7	6 Days	11 February 2026	16 February 2026	7	16 February 2026
Sprint-2	2	6 Days	11 February 2026	16 February 2026	3	16 February 2026
Sprint-3	6	6 Days	13 February 2026	18 February 2026	6	18 February 2026
Sprint-4	4	6 Days	14 February 2026	19 February 2026	4	19 February 2026



Backlog:

Projects

Strategic Product Placement Analysis

SummaryTimelineBacklogBoardCalendarListFormsGoalsAll workCodeArchived work itemsMore

Search backlogMH+4EpicType

SPPA Sprint 118 Jun – 25 Jun (1 work item)

700Complete sprint

☒ SPPA-15Data collect and extraction of the data

STORY

7

5

+ Create

SPPA Sprint 218 Jun – 22 Jun (1 work item)

200Complete sprint

☒ SPPA-17Data preparation

2

1

+ Create

Projects

Strategic Product Placement Analysis

SummaryTimelineBacklogBoardCalendarListFormsGoalsAll workCodeArchived work itemsMore

Search backlogMH+4EpicType

SPPA Sprint 318 Jun – 25 Jun (2 work items)

600Complete sprint

☒ SPPA-18data visualization

3

1

☒ SPPA-19Dashboard

3

1

+ Create

SPPA Sprint 418 Jun – 25 Jun (2 work items)

400Complete sprint

☒ SPPA-20story

2

1

☒ SPPA-21performance testing

2

1

+ Create

Board:

Projects

Strategic Product Placement Analysis

SummaryTimelineBacklogBoardCalendarListFormsGoalsAll workCodeArchived work itemsMore

Search boardMH+4EpicTypeFilter

Complete sprint

Group

TO DO

+ Create

IN PROGRESS

DONE 6

☒ Data collect and extraction of the data

STORY

☒ SPPA-15

7

5

☒ Data preparation

SPPA-17

2

1

☒ data visualization

SPPA-18

3

1

☒ Dashboard

SPPA-19

3

1

Projects

Strategic Product Placement Analysis

SummaryTimelineBacklogBoardCalendarListFormsGoalsAll workCodeArchived work itemsMore

Search boardMH+4EpicTypeFilter

Complete sprint

Group

TO DO

IN PROGRESS

DONE 6

☒ SPPA-18

3

1

☒ Dashboard

SPPA-19

3

1

☒ story

SPPA-20

2

1

☒ performance testing

SPPA-21

2

1

+ Create

6. FUNCTIONAL AND PERFORMANCE TESTING:

6.1 Performance Testing:

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	10 Rows and 1000 Coloums
2.	Data Preprocessing	Handle missing values and removed Duplicate values
3.	Utilization of Filters	Measure Names , product position , consumer demorphics , product category
4.	Calculation fields Used	No
5.	Dashboard design	No of Visualizations / Graphs - 7 Visualizations 1. avg sales volume vs product category- Bar chart 2. competitor price vs price- side by side bar chart 3. avg sales volume by product category- Tree map 4. consumer demorphics- Donut chart 5. product category vs price-Pie chart 6. avg sales by season by product category- Stack bar chart 7. foot traffic by avg sales-PackedBubbles chart 8. promotion of product category bu avg sales-Texttable
6	Story Design	No of Visualizations / Graphs - 3 Visualizations 1. avg sales volume by product category 2. competitor price vs price 3. consumer demorphics

7. RESULTS:

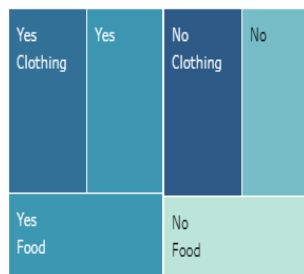
7.1 Output Screenshot:

Project Placement Analysis Dashboard

Avg Sales Volume vs Product Category



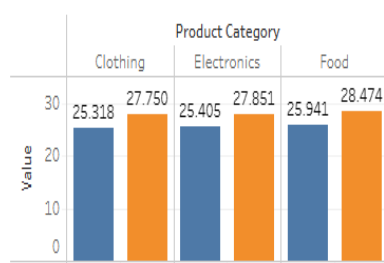
Avg Sales Volume by Product Category by Season



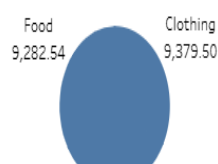
Promotion of Product Category on Price and Sales Volume

Promotion	Product Category	Avg. Price	Avg. sales vo..
No	Clothing	27	1,869
	Electronics	27	1,726
	Food	28	1,677
Yes	Clothing	29	1,781
	Electronics	29	1,773
	Food	29	1,782

Competitor Price Vs Price



Product Category vs Price



Consumer Demographics vs Sales Volume



Story:

Story 1

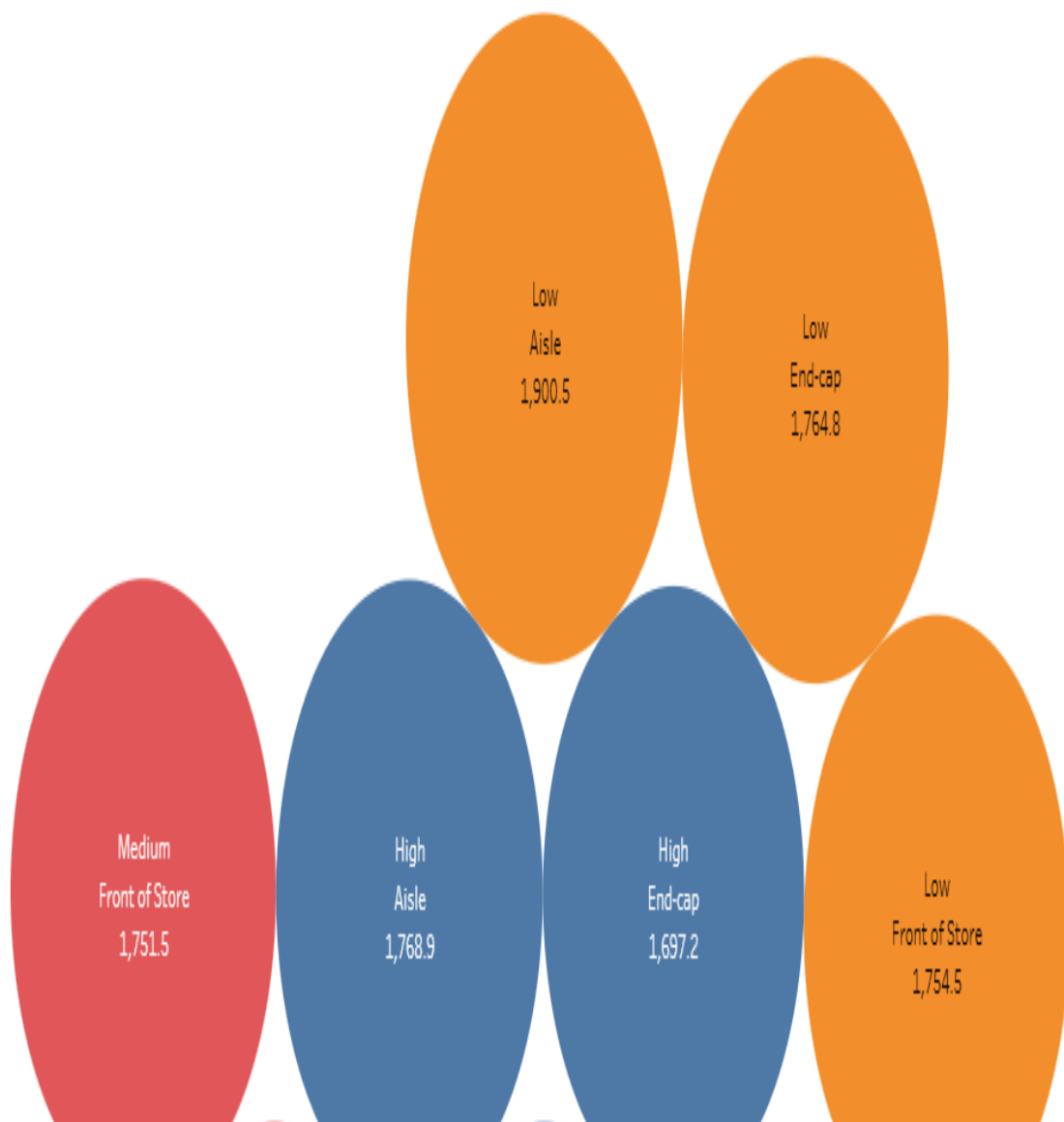
< The product position at the front of store is high sales volume and clothing at front of store has highest average sales volume. Clothing has highest average sales volume >

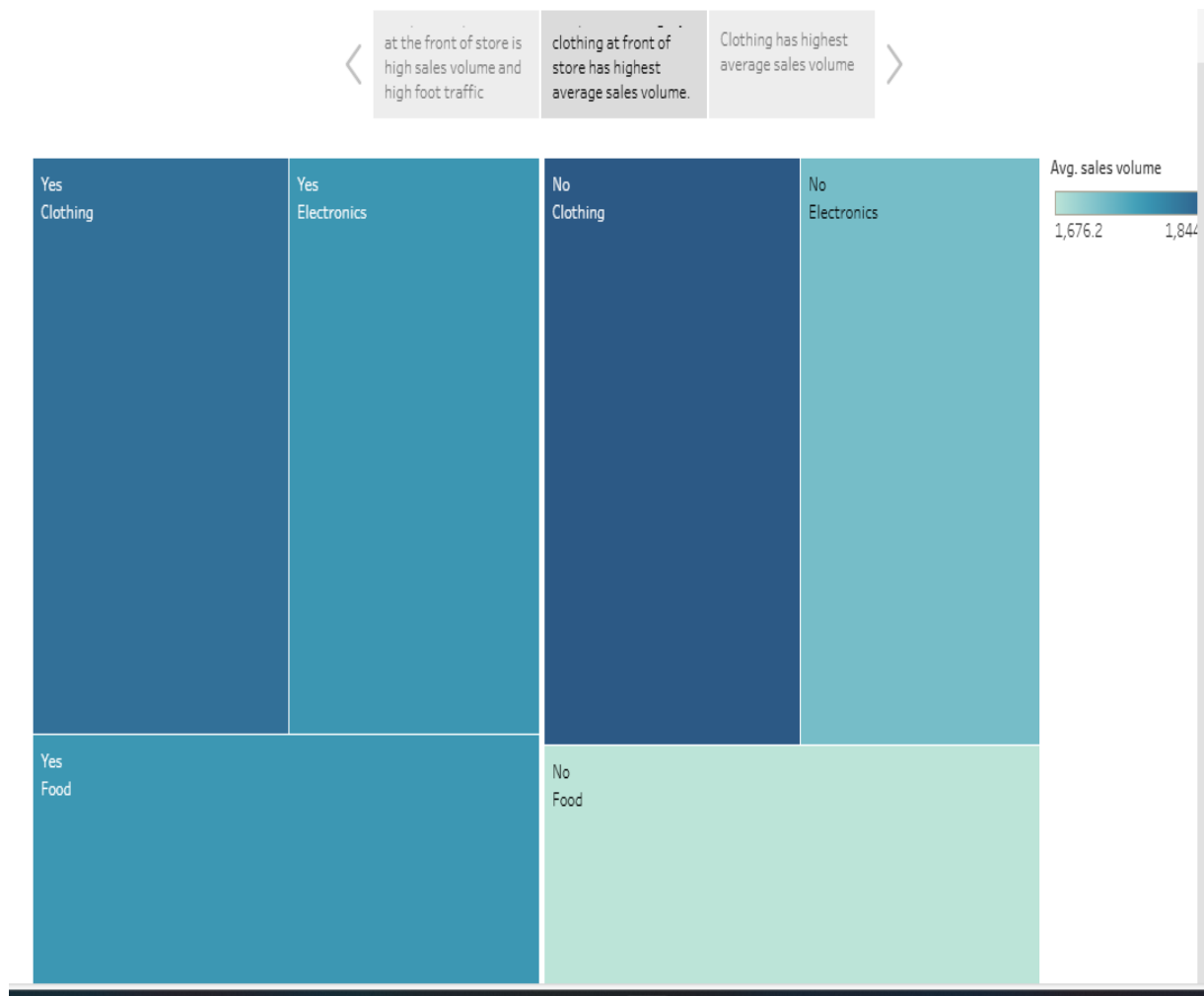
Foot Traffic

■ High

■ Low

■ Medium





< The product position at the front of store is high sales volume and The product category clothing at front of store has highest Clothing has highest average sales volume >

Promotion	Product Category	Avg. Price	Avg. sales vo..
No	Clothing	27	1,869
	Electronics	27	1,726
	Food	28	1,677
Yes	Clothing	29	1,781
	Electronics	29	1,773
	Food	29	1,782

8. ADVANTAGES & DISADVANTAGES:

Advantages:

Data-Driven Decision Making: Helps retailers and marketers make informed decisions about where to place products to maximize sales.

Improved Sales Performance: Identifies optimal product placement strategies, leading to increased product visibility and potentially higher revenue.

Customer Behavior Insights: Reveals buying patterns and foot traffic trends, improving understanding of customer preferences.

Effective Use of Tableau: Provides interactive, visual insights that are easy for stakeholders to interpret, even without technical backgrounds.

Cost Optimization: Helps reduce wasted shelf space and inefficient layouts by showing which placements yield poor returns.

Competitive Advantage: Businesses using advanced analytics gain an edge over competitors relying on intuition alone.

Disadvantages:

Data Dependency: Requires large volumes of accurate and up-to-date sales and placement data; poor data quality can mislead conclusions.

Complexity in Setup: Initial setup for data collection, integration, and visualization in Tableau can be time-consuming and require technical expertise

Tool Limitations: Tableau is a powerful tool, but it may have limitations in advanced predictive modeling or real-time analytics compared to specialized tools.

Cost of Implementation: Investment in tools, training, and data infrastructure may be significant for small businesses.

9. CONCLUSION:

The "**Strategic Product Placement Analysis**" project, enhanced with **Tableau visualization**, serves as a powerful approach for businesses aiming to optimize product positioning and drive sales growth. By leveraging data analytics, companies can gain actionable insights into customer behavior, shelf performance, and layout efficiency. While there are challenges such as data requirements and implementation complexity, the benefits—like improved sales, informed decision-making, and competitive advantage—far outweigh the drawbacks when executed properly. Overall, this project empowers businesses to make smarter merchandising decisions and adapt quickly in a competitive retail environment.

This analysis proves that intuitive product placement alone is no longer sufficient in today's data-centric retail world. Incorporating visual analytics provides a scalable and

repeatable method to evaluate and refine placement strategies across different store formats and product categories.

While the project presents strong advantages, it also highlights the importance of maintaining high-quality data and regularly updating insights to keep up with changing consumer trends. Strategic product placement should be seen as an ongoing, dynamic process rather than a one-time task.

10 FUTURE SCOPE:

- **Integration with Real-Time Data:** Incorporate real-time sales and inventory data to enable dynamic product placement adjustments based on current trends and demand.
- **AI & Machine Learning Enhancements:** Use predictive analytics and machine learning models to forecast sales performance based on proposed placements and customer behavior patterns.
- **Customer Heatmap & Footfall Analysis:** Integrate in-store sensor data or camera-based heatmaps to track customer movement and identify high-traffic zones for optimal product placement.
- **Cross-Channel Analysis:** Extend the analysis to include online sales and digital shelf performance, providing a unified view across physical and digital storefronts.
- **Personalized In-Store Experiences:** Combine placement data with customer profiles and loyalty data to tailor shelf arrangements and promotions for targeted customer segments.
- **Automation of Reporting:** Set up automated dashboards in Tableau that update periodically, reducing manual effort and improving decision-making speed

10. APPENDIX:

Tools & Technologies Used:

- **Tableau Public / Desktop** – For data visualization and dashboard creation
- **Microsoft Excel** – For data cleaning, preparation, and preprocessing
- **Google Sheets** – For online collaboration and dataset sharing

Data Set Link: <https://www.kaggle.com/datasets/amitvkulkarni/impact-of-product-positioning-on-sales>

Tableau public Dashboard and story links:

Dashboard Link:

https://public.tableau.com/views/sheet5_17705359909650/ProjectPlacementAnalysisDashboard?:language=en-US&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

Story Link:

https://public.tableau.com/shared/4XT9TBJ68?:display_count=n&:origin=viz_share_link

