

Dunkin' Donuts: Leveraging Business Intelligence for Innovation

Team 2



CONTENTS



01

Introduction

Mission and Vision, Goals, Summary

02

Proposed BI Solution

BI framework, Three Use cases, Benefits

03

Implementation

Dashboards, Analytics

04

Ethical Challenges

Overview of ethical issues for implementations

05

Conclusion

Overview of operational strategy, integration of BI tools

06

References

APA format

The background of the slide is a collage of various pastries. On the left, there are white, fluffy pastries, possibly cream puffs or doughnuts with white frosting. On the right, there are rows of chocolate-glazed donuts with sprinkles, pink-glazed donuts, and golden-brown croissants. The collage is divided by diagonal lines, creating a modern, geometric aesthetic.

01

INTRODUCTION

1. Mission and Vision
2. Introduction
3. Goals & BI Needs

Mission & Vision

Mission: "To be the world's leading baked goods and coffee chain, serving delicious, high-quality products that bring joy and fuel their customers' day."

Vision: "Dunkin' aims to be the go-to destination for high-quality coffee, delicious doughnuts, and bakery products for customers to enjoy with their loved ones."

Introduction

- Founded in 1950, leading global coffee and baked goods chain
- Over 12,900 restaurants in 42 countries
- Primary products: donuts, bagels, coffee, baked goods
- Franchise model with 200,000 employees
- Limited use of advanced BI and analytics currently



Goals & BI Needs

- Expand into new markets
- Offer innovative, health-conscious products
- Capitalize on evolving consumer trends
- Integrate data sources: POS, loyalty, social media, market research
- Enable advanced reporting, predictive analytics

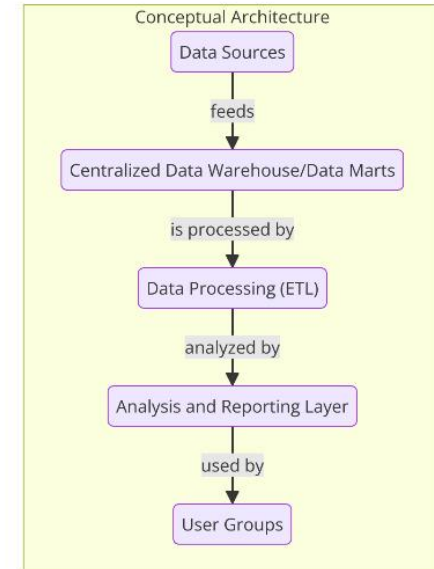
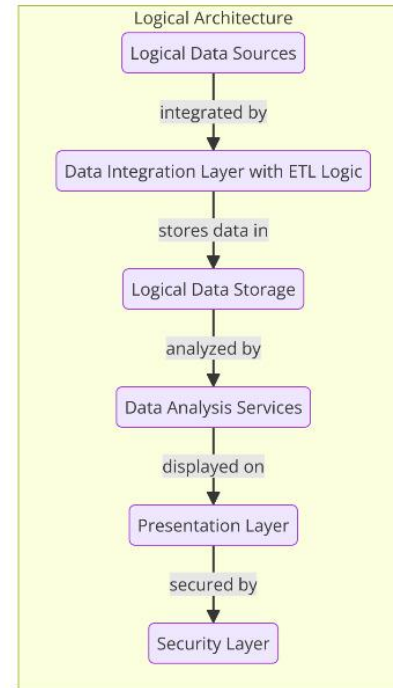
02

Proposed BI Solution

1. BI Framework
2. Use Case One
3. Use Case Two



BI Framework



Use Case One - Customized Donuts

- **Challenge:** Customer demand for variety & personalization
- **Solution:** Dunkin' DIY Stations for self-serve customized donuts
- **BI Integration:**
 - Analyze POS data for popular toppings/bases
 - Customer segmentation for localized options
 - Dynamic pricing, upsell recommendations
 - Real-time ingredient monitoring

Use Case Two - Healthier Options

- **Challenge:** Sugary image deters health-conscious consumers
- **Solution:** Expanded healthy breakfast/snack menu
- **BI Integration:**
 - Market research on healthy preferences
 - Customer feedback analysis
 - Sales tracking of healthy items
 - Targeted promotions to customer segments

03

IMPLEMENTATION

1. Dashboard 1 - Sales Performance
2. Dashboard 2 – Customer Segmentation
3. Social Media Sentiment Analysis
4. Analytics - KMeans Segmentation Analysis



Dashboard 1 - Sales Performance

Goal: Gain insights into sales performance across different product categories, locations, and periods.

- Interactive maps for sales by location
- Sales Comparison
- Sales Targets
- Marketing campaign impact analysis
- Sales targets tracking

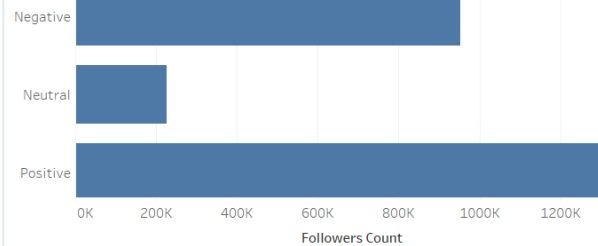
Dashboard 1 - Sales Performance

Dunkin Donuts Dashboard

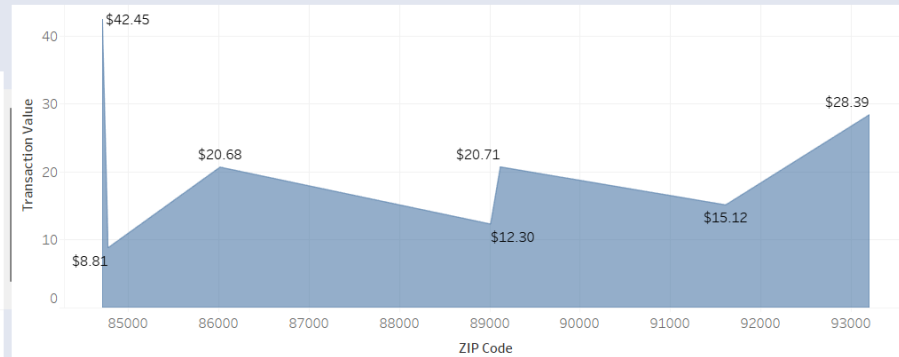


Customer Sentiments

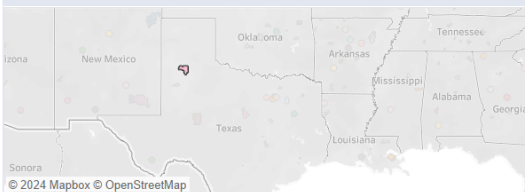
Sentiment..



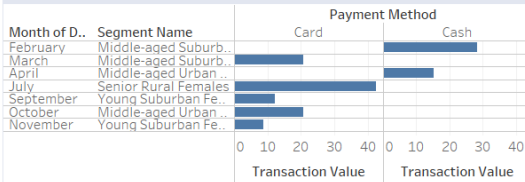
Transaction value (region based)



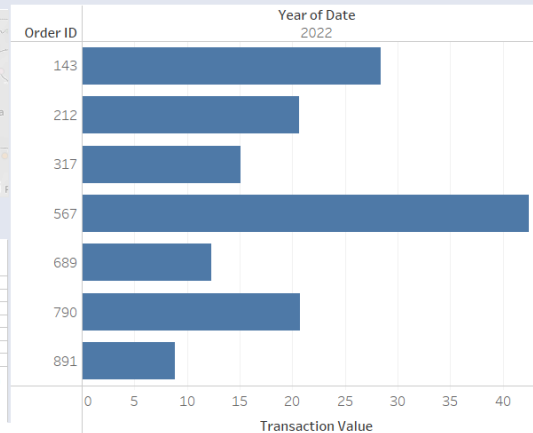
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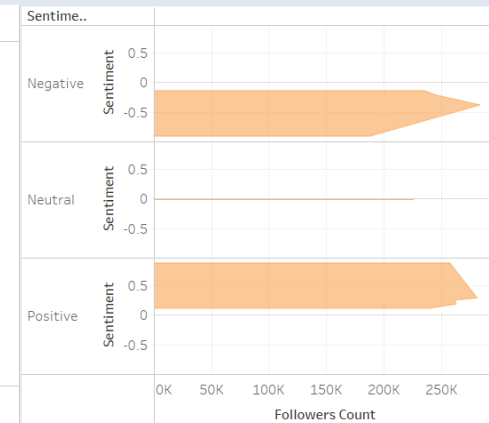
Payment methods



Order per year



How People Feel about Dunkins



Dashboard 2 – Customer Segmentation

Goal: Understand customer behavior and preferences to inform targeted marketing and product development strategies.

- Customer segments by demographics, purchase behavior
- RFM (recency, frequency, monetary) analysis
- Product affinity analysis
- Campaign performance by segment
- Customer feedback integration

Dashboard 2 – Customer Segmentation

Donut Ingredients Dashboard by Region

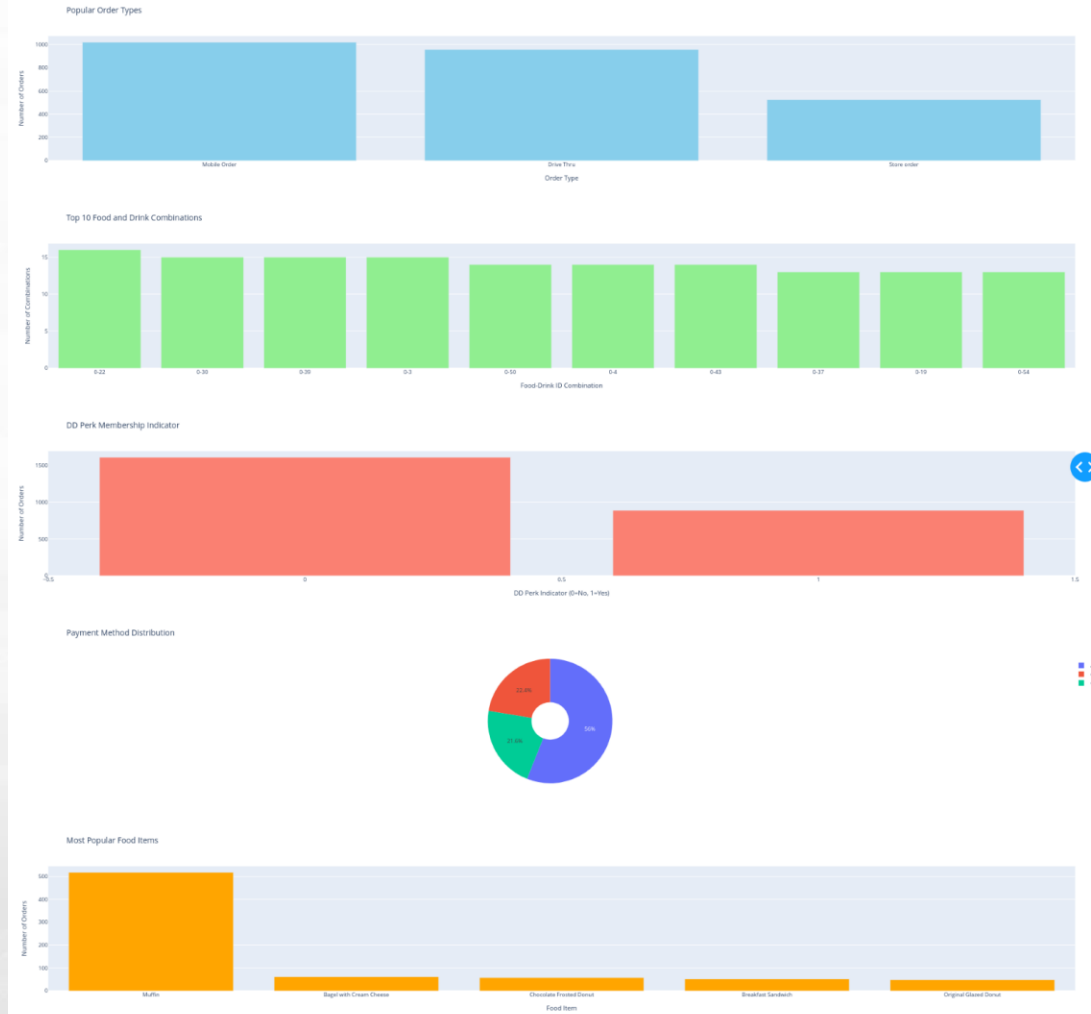


Top 4 Ingredients by Category

Category	Ingredients
Dough Type	Vegan, Classic, Cake, Gluten-Free
Icing	Chocolate, Vanilla, Maple, Strawberry
Glazing	Sugar, Honey Glaze
Filling	Custard, Boston Kreme, Jelly

Dashboard 2 – Customer Segmentation

Dunkin' Donuts Data Analysis



The most popular food item for which a healthier version could be released is: Muffin

Analytics - KMeans Segmentation Analysis

Goal: Perform customer segmentation analysis for Dunkin' Donuts using their customer interaction data to better understand demographics and behavior, enabling refined marketing strategies.

- Data Encoding
- Feature Selection and Scaling
- Clustering Application

Social Media Sentiment Analysis

- Collect brand mentions across platforms
- Sentiment analysis (positive, negative, neutral)
- Topic modeling for recurring themes
- Outputs: Sentiment reports, word clouds, customer personas

Reviews Sentiment Analysis

Dunkin' Retweeted

Haley Garbaciak @haleyp711 · Apr 29

The pomegranate coconut milk refresher from Dunkin is 10/10 my new favorite 🍷

1

8

69



Dunkin' Retweeted

@NaomiR @Nao23Mi · Apr 29

Strawberry Coconut Refresher from Dunkin is soo good 😊.



9

59



Score: 0.59

Neutral



Lisa C.

Worcester, MA

2 50 3

Jun 13, 2017

I live legit 3 mins from this dunks but unfortunately it sucks... first off the line is always wrapped around the whole store and I'm talking waiting 15 mins. When I place my order I'm always wicked rushed to the point where I don't even bother with food anymore. But what ruins it for me is the way the coffee taste. Absolutely unacceptable it's fuckin nasty... I hate to sound foul but it doesn't taste like anything that usually comes out of dunks. I've had some mediocre coffees but this is just wrong. I will purposely travel farther for a better start to my morning

Positive

Score: 0.99

Dunkin' Donuts
18 June

#Humpday isn't going anywhere, but the coffee and sunshine are helping our mood go up!



Like · Comment · Share

26 people like this.

Negative

Score: 0.383

04

ETHICAL CHALLENGES

1. Overview of Ethical Issues for Implementations.
2. Kotter's 8 step model



Overview of Ethical Issues for Implementations

- Food waste from customization options
- Employee training requirements
- Transparency in nutritional labeling
- Avoiding misleading health claims
- Worker safety/compensation for delivery
- Maintaining quality in value pricing



CONCLUSION

- BI integration positions Dunkin' Donuts for continued growth
- Facilitates informed decision-making
- Fosters deeper customer connections
- Initial tests indicate cost reduction and sales improvement potential

REFERENCES APA Format

- Parker, B. (2024). Dunkin Donuts SWOT 2024: SWOT analysis of Dunkin Donuts. Retrieved from <https://bstrategyhub.com/dunkin-donuts-swot-analysis/>
- Dunkin' donuts. (2024). Retrieved from https://en.wikipedia.org/wiki/Dunkin%27_Donuts
- Schmidt, R.A., & Oldfield, B.M. (1999). "Dunkin' Donuts – the birth of a new distribution and franchising concept," Journal of Consumer Marketing. <https://doi.org/10.1108/07363769910371044>
- "Dunkin' Brands: The On-the-Go Cup of Joe - Technology and Operations Management," Harvard Business School. <https://d3.harvard.edu/platform-rctom/submission/dunkin-brands-on-the-go-cup-of-joe/>
- "Dunkin Donuts SWOT 2024 | SWOT Analysis of Dunkin Donuts," Business Strategy Hub. <https://www.bstrategyhub.com/swot-analysis-dunkin-donuts/>
- "Dunkin' Donuts Target Market Segmentation & Demographics," Start.io. <https://www.start.io>
- "Dunkin Donut Marketing Strategy: A Recipe for Attracting Over 3 Million Customers Daily," Build.co. <https://buildd.co/marketing/dunkin-donuts-marketing-strategy/>
- "Marketing Strategies of Dunkin' Donuts: Brewing Up Business," StartupTalky.com. <https://startuptalky.com/marketing-strategies-dunkin-donuts/>
- "Unveiling Dunkin Donuts Marketing Strategies," TheBrandHopper.com. <https://thebrandhopper.com/dunkin-donuts-marketing-strategies/>
- "The Role of Big Data in Dunkin' Donuts' Strategy," Analytics Magazine. This source discusses how Dunkin' Donuts uses big data analytics to enhance customer experience and streamline operations. <https://analytics-magazine.org>
- "Social Media Strategy Analysis: Dunkin' Donuts," Digital Marketing Journal. This article examines Dunkin' Donuts' use of social media platforms to engage customers, including their methods for tracking and responding to customer sentiment. (<https://digitalmarketingjournal.org>)

THANK YOU

