

Innovative Marketing in Luxury Fashion: How Gucci Uses Big Data to Enhance Digital Marketing

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Abstract

This study examines Gucci's digital marketing strategies, focusing on how the brand leverages big data to enhance its digital presence and engage Generation Z. Amid significant digital transformation in the fashion industry, Gucci has maintained its competitive edge through innovative digital initiatives. The research analyzes Gucci's use of big data to personalize customer experiences, optimize marketing campaigns, and implement online-to-offline (O2O) strategies. Findings indicate that Gucci's comprehensive digital strategy, which includes augmented reality and 3D visualization, effectively enhances customer engagement, increases sales, and builds brand loyalty, solidifying its position as a leader in the luxury fashion industry.

Keywords

Digital Transformation; Luxury Brands; Gucci; Big Data; Digital Marketing; Generation Z; Consumer Behavior; Augmented Reality (AR); Virtual Reality (VR); 3D Visualization.

1. Introduction

1.1. Background and Significance

Over the past decade, the fashion industry has experienced significant digital transformation driven by technological advancements, evolving consumer behavior, and the growing importance of online and mobile shopping. Digital platforms have become essential for brands, offering personalized experiences and seamless shopping journeys. The use of big data, artificial intelligence, and augmented reality has revolutionized marketing strategies, optimized supply chains, and enhanced customer experiences.

Founded in Florence in 1921, Gucci is celebrated for its distinctive creativity, innovation, and impeccable Italian craftsmanship. However, maintaining its status as a premier luxury brand has required constant adaptation. The luxury fashion market is highly competitive, characterized by fast fashion and changing consumer preferences.

From 2012 to 2015, Gucci's revenue stagnated, prompting the brand to adopt a "digital marketing + rejuvenation" strategy in 2015. This led to significant growth, with nearly 10 billion euros in revenue by 2019. A key element of this transformation was the implementation of a cross-channel customer database and options for online booking and in-store pickup, integrated into an online-to-offline (O2O) marketing strategy.

The Pandemic accelerated the digital shift, disrupting traditional retail channels and highlighting the need for a robust digital presence. Gucci experienced a 23% drop in global sales in 2020, emphasizing the urgency for an effective digital strategy. In response, Gucci accelerated its digital initiatives to adapt to new consumer behaviors. By 2022, Gucci's revenues had rebounded to approximately 9.7 billion euros, and in 2023, sales reached around 10.1 billion euros, driven by strong online sales and innovative digital marketing strategies.

Recognizing the necessity of digitalization to maintain its competitive edge, Gucci has made it a cornerstone of its marketing approach. This dissertation will explore the digital marketing

strategies Gucci has implemented, particularly those leveraging big data technology, and examine how digitalization has become central to the brand's success.

1.2. Research Objectives

This study aims to analyze Gucci's digital marketing strategies, with a focus on how the brand leverages big data technology to enhance its digital marketing and reach new consumer segments, particularly Generation Z.

By examining Gucci's use of big data, the study will explore how the brand personalizes customer experiences, optimizes marketing campaigns, and drives engagement with younger audiences. Additionally, the research will look into the implementation of online-to-offline (O2O) strategies and digital tools that have helped Gucci maintain its competitive edge. The goal is to understand the effectiveness of these digital initiatives in increasing sales, building brand loyalty, and positioning Gucci as a leader in the luxury fashion industry in the digital age.

1.3. Research Questions and Hypotheses

This study addresses the following research questions:

How has Gucci maintained its leadership in digital marketing among luxury brands

How has Gucci's digital strategy effectively captured the attention and loyalty of Generation Z?

How has Gucci enhanced the online shopping sensory experience through virtual try-ons and 3D visualization?

Based on these questions, the hypotheses are:

Hypothesis 1: Gucci is a Leader in Digital Marketing Among Luxury Brands.

Hypothesis 2: Gucci's digital strategy focuses more on Generation Z.

Hypothesis 3: The challenge for Gucci's digitalization is to sell goods by enhancing the customer's sensory experience.

2. Literature Review

2.1. Digital Transformation in the Luxury Industry

The digital transformation in the luxury industry has reshaped traditional business models by emphasizing a robust online presence, e-commerce capabilities, and digital marketing strategies. Traditionally reliant on exclusivity and in-store experiences, luxury brands are now shifting towards more accessible online platforms. McKinsey & Company (2021) reported that the digital share of personal luxury goods sales nearly doubled from 12% in 2019 to 23% in 2020, driven by the pandemic. Brands like Gucci leverage social media, influencer partnerships, and interactive digital content, while Burberry and Louis Vuitton use AR, VR, and mobile apps for personalized customer experiences. This digitalization expands customer bases and provides valuable consumer data for refining marketing strategies (D'Arpizio et al., 2020).

2.2. Big Data and its Applications in Marketing

Big Data refers to the vast volumes of digital information generated through various technologies, including social media, e-commerce platforms, and IoT devices. In marketing, Big Data is instrumental in analyzing customer behavior, predicting trends, and personalizing marketing efforts. The ability to process and analyze large datasets allows companies to gain deeper insights into consumer preferences, purchasing patterns, and feedback, enabling them to tailor their marketing strategies more effectively.

Gucci, for instance, leverages Big Data to enhance its digital marketing efforts. By analyzing data from social media interactions, online sales, and customer feedback, Gucci can identify emerging trends and consumer preferences. This data-driven approach allows the brand to create highly targeted marketing campaigns, optimize product recommendations, and

personalize customer interactions. According to a study by Davenport, Barth, and Bean (2012), companies that adopt Big Data analytics can achieve up to a 20% increase in marketing ROI. Furthermore, the integration of artificial intelligence (AI) with Big Data enables predictive analytics, allowing brands to anticipate market shifts and adjust their strategies proactively (Chen, Chiang, & Storey, 2012).

2.3. Consumer Behavior of Generation Z

Generation Z, born between 1997 and 2012, represents a significant and influential consumer segment characterized by their digital nativeness. This cohort has grown up with the internet, social media, and smartphones, making them adept at navigating digital environments and highly receptive to online marketing. Understanding the preferences and behaviors of Generation Z is crucial for brands aiming to capture this emerging market.

Generation Z values authenticity, social responsibility, and personalized experiences. According to a report by McKinsey & Company (2018), 70% of Generation Z consumers influence family purchasing decisions, and they are more likely to choose brands that align with their values and offer personalized experiences. They prefer interactive and engaging content, such as social media challenges, influencer collaborations, and immersive digital experiences. Brands that successfully engage Generation Z often leverage platforms like Instagram, TikTok, and Snapchat, where this demographic spends a significant amount of time (Francis & Hoefel, 2018).

Luxury brands, including Gucci, have recognized the importance of connecting with Generation Z. Gucci's digital marketing strategies include collaborations with influencers and celebrities popular among young audiences, as well as creating engaging content on social media platforms. These efforts have helped Gucci build a strong online presence and foster brand loyalty among Generation Z consumers. By understanding and adapting to the preferences of this digitally savvy generation, luxury brands can ensure sustained growth and relevance in the evolving market landscape.

3. Methodology

3.1. Research Method

The objective of this research is to analyze Gucci's new marketing strategies based on Big Data. Given its empirical and analytical focus, this study employs an exploratory methodology (Eisenhardt, 1989; Yin, 1994). This methodology is particularly effective for examining strategies in emerging contexts (Hoskisson et al., 2000) as it facilitates the collection of preliminary data, exploration, and hypothesis formulation. Patton (2002) categorizes exploratory research methods into four types: secondary data research, questionnaires, expert interviews, and similar case analysis. This study primarily utilizes secondary data research and questionnaires to gather comprehensive insights into Gucci's digital marketing strategies.

3.2. Data Collection

The objective of this research is to analyze Gucci's new marketing strategies based on Big Data. Given its empirical and analytical focus, this study employs an exploratory methodology (Eisenhardt, 1989; Yin, 1994). This methodology is particularly effective for examining strategies in emerging contexts (Hoskisson et al., 2000) as it facilitates the collection of preliminary data, exploration, and hypothesis formulation. Patton (2002) categorizes exploratory research methods into four types: secondary data research, questionnaires, expert interviews, and similar case analysis.

To Understand Gucci's digital marketing strategies and their reliance on Big Data, two primary data collection methods were utilized: secondary data research and a questionnaire survey.

Secondary data research involved collecting and analyzing existing data from various sources, including academic journals, industry reports, and market analysis documents. This method provided a foundational understanding of the digital transformation in the luxury industry, the role of Big Data in marketing, and Generation Z consumer behavior. The insights gained from secondary data were essential for formulating research hypotheses and structuring the primary data collection.

To supplement the secondary data, a detailed questionnaire was distributed to gather quantitative data on consumer perceptions of Gucci’s digital marketing. The questionnaire focused on the effectiveness of digital marketing strategies and the role of Big Data in personalizing consumer experiences.

3.3. Data Analysis

The data analysis for this research was primarily focused on quantitative methods to provide a comprehensive understanding of Gucci's digital marketing strategies. Quantitative analysis was based on a detailed questionnaire survey, with 189 responses collected. The demographic data from the survey provided a thorough view of consumer attitudes and perceptions. Statistical analysis was performed to examine the distribution of responses across various demographic segments, enabling the identification of trends and patterns in consumer behavior and preferences. This approach ensured a robust analysis by integrating broad quantitative trends to draw comprehensive conclusions about Gucci's digital marketing leadership and strategies targeting Generation Z.

4. Results and Discussion

4.1. Hypothesis 1: Gucci is a Leader in Digital Marketing Among Luxury Brands.

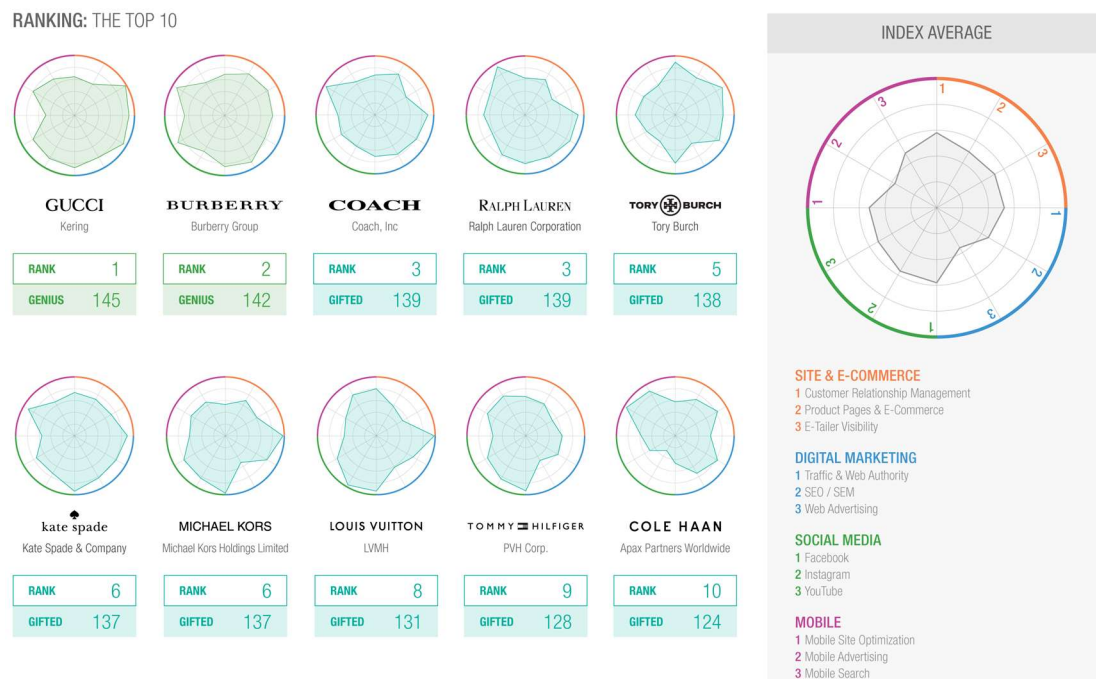


Figure 1. 2021 Fashion Brand Digital Index Report

One of the key indicators to determine if a luxury brand is sufficiently modern is its level of digitalization. As the global luxury industry gradually recovers, digitalization is becoming a significant driver for future brand development. According to the "2020 Fashion Brand Digital Index Report" published by the business consulting agency L2, Gucci, due to its diverse and intensive digital marketing activities, outperformed 89 other competitors to become the

number one luxury brand with the highest digital index. The annual Digital Index Report on luxury brands by the digital research agency L2 is one of the most closely watched rankings in the industry. In the 2020 report, L2 evaluated the performance of 90 brands in e-commerce, digital marketing, social media, and mobile applications to derive a digital index and ranking for each brand.

According to data from the Gartner Digital IQ Index, as consumers reduced their luxury consumption in response to the pandemic's impact on the economy, luxury product sales decreased to varying levels in 2022. However, during the pandemic, luxury brands still relied on digital channels to generate revenue. Statistics show that online retail sales of luxury products increased by 92% year-on-year in 2022. The Gartner Digital IQ Index lists the top 10 luxury brands in 2023 across four online dimensions: website luxury, shopping channels, digital marketing channels, and social media. The top ten are shown in the picture below.

No.	Marque	Digital IQ
1	Louis Vuitton	144
2	Tiffany	142
3	Kate Spade Digital	140
4	Chanel	139
5	Ralph Lauren	136
6	Coach	133
7	Gucci	130
8	Tory Burch	127
9	Swarovski	125
10	Mike Goss	122

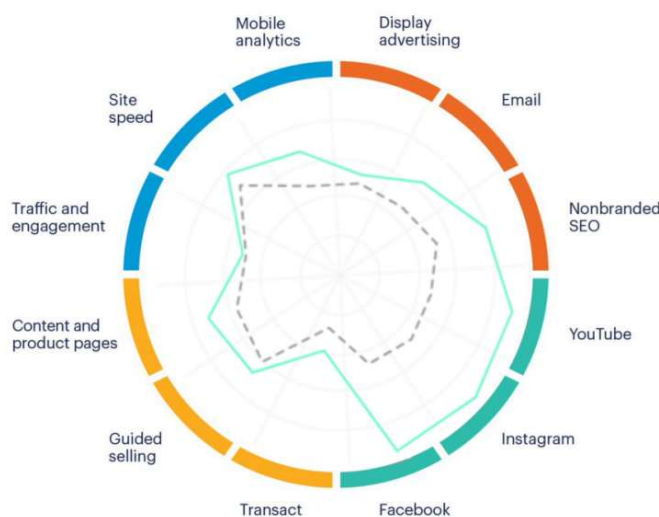


Figure 2. Gartner Digital IQ Index Score 2023

As the figures on the left indicate, Gucci's Digital IQ value is relatively high. On the right, there are specific data for Gucci's four dimensions. Although Gucci's ranking in 2023 has dropped compared to 2020, it is still much better than the average level of the luxury industry. Thus, it is confirmed that Gucci is a leader in digital marketing among luxury brands.

4.2. Hypothesis 2: The Digital Strategy Focuses More on Generation Z.

Generation Z is a key target for the luxury industry, and Gucci has successfully captured this demographic. Under CEO Marco Bizzari and Creative Director Alessandro Michele, Gucci implemented a strategy aimed at Generation Z, a group with lower purchasing power but high influence. These young consumers shape consumption behaviors and create hype by testing and recommending products.

Consumers under 25 naturally influence Generation X. To gain their loyalty, Generation Z needs a comprehensive strategy centered around them, as they are highly digital and well-informed with high expectations. Brands engage with them by offering attractive content and sharing principles.

According to Forbes, while these younger audiences accounted for 4% of total luxury spending worldwide in 2018, in China, Generation Z makes up 15% of luxury purchases, showing significant potential.

To attract these young consumers, Gucci uses emerging technologies and digital marketing tools like augmented reality, virtual reality, AI chatbots, and apps. Notably, 55% of Gucci's sales come from viewers under 35, much higher than other luxury brands. Online sales have also increased, with the brand doubling its digital sales in early 2018.

a. Personalization

Generation Z values expressing their unique personalities through custom products. They are interested in creating their own signature products. Personalizing certain products by mixing and matching elements allows them to express a stylistic freedom that young buyers dream of, like custom-made shoes, are extremely popular as they offer both functional and aesthetic benefits. For example, Wiiivv, a company that makes shoes based on foot scans ordered via an app, has doubled its sales year-over-year since 2014, illustrating the demand for personalization. This trend serves as a great model for Gucci.

b. Digital Communities Are Equally Important

The pandemic heightened the need for social interaction, pushing consumers to engage in digital communities. Generation Z, active in online games and social media, seeks a sense of belonging and recognition through their digital avatars. According to Newzoo, the global number of esports players is expected to reach 495 million, highlighting the importance of online communities. Therefore, online communities should be treated by luxury marketers with the same dedication.

Gucci has leveraged social media to connect with Generation Z, moving from the runway to platforms like Instagram, where it has 20.3 million followers. Therefore, as a luxury brand today, there must be meaningful engagement with its audiences, and the way the brand advertises to them must resonate. Gucci has very innovative social media campaigns and has skillfully woven different social media platforms together to create a strong brand presence.

Data from a questionnaire indicates that 46.03% of respondents discovered Gucci through social media, showing the effectiveness of its strategy. Millennials, who value experiences over purchases, find Gucci's innovative social media campaigns engaging. For instance, Gucci's Instagram campaign for luxury watches resonated with a younger audience, creating future consumers and setting the brand apart. According to the questionnaire, the biggest impact of Gucci's social media marketing is maintaining a dynamic online community (41.8%), increasing brand value (31.22%), and boosting purchase intentions (26.98%).

4.3. Hypothesis 3: The Challenge of Digitalization is to Sell Goods by Enhancing the Customer's Sensory Experience.

Since the pandemic, luxury brands have increasingly implemented digital strategies and direct-to-consumer platforms. However, creating a sensory experience online remains challenging, as it involves engaging customers' visual, auditory, and olfactory senses. Merchants must design interactions that enhance the user's sensory experience. This section explores how Gucci addresses this challenge.

c. Trend of Virtual Try-On and 3D Visualization

With the rise of e-commerce and omnichannel strategies, consumers, especially younger ones, seek engaging and practical digital experiences. The ability to try on products virtually has become essential. Gucci prioritizes the sensory experience by offering augmented reality (AR) for virtual try-ons through its app. This allows consumers to see how items like shoes look, share photos online, and receive feedback, creating a fun, Instagram-worthy shopping experience from home. Questionnaire data shows that 33.86% of respondents appreciate Gucci's sensory marketing activities the most.

Gucci also uses AR and virtual reality (VR) to create virtual versions of its collections for platforms like Tennis Clash, Roblox, and VR chat applications, allowing users to dress their

avatars with Gucci products. For example, in Tennis Clash, users can wear digital Gucci clothing and accessories, while on Roblox, they can use iconic accessories like the Marmont bag and sunglasses. In March 2020, Gucci launched a digital sneaker collection available through the "Gucci Sneaker Garage" on its app, allowing users to purchase and wear virtual sneakers using AR technology.

Questionnaire results indicate that respondents see digital marketing, innovation, and virtual try-on and 3D visualization as competitive advantages of Gucci, with 30.16%, 22.22%, and 16.93% support, respectively. This demonstrates that Gucci effectively enhances the sensory experience in the digitalization process.

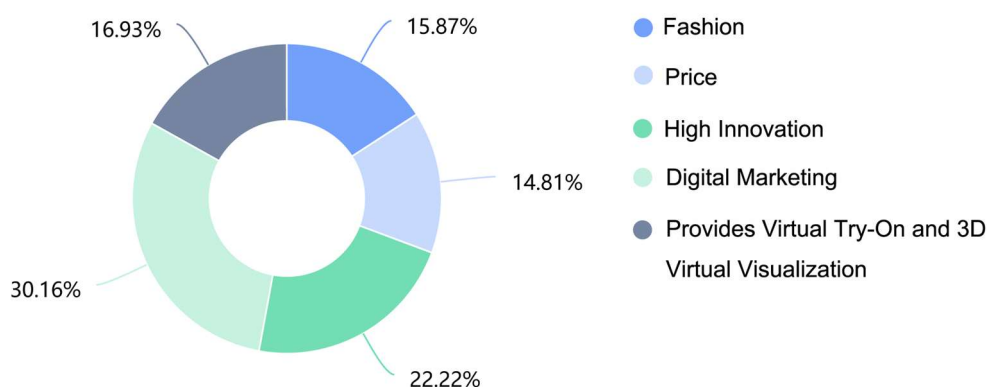


Figure 3. Competitive advantages of Gucci

5. Conclusion

This dissertation has explored Gucci's digital marketing strategies, with a focus on how the brand leverages big data technology to enhance its digital marketing and engage new consumer segments, particularly Generation Z. The research has provided a comprehensive analysis of the digital transformation within the luxury industry, the application of big data in marketing, and the specific behaviors and preferences of Generation Z consumers.

Gucci's digital strategy has positioned it as a leader among luxury brands. The brand's diverse and intensive digital marketing activities have been pivotal in maintaining its competitive edge and driving substantial revenue growth. The implementation of a cross-channel customer database and the integration of online booking with in-store pickup reflect Gucci's commitment to an online-to-offline (O2O) marketing strategy, which has proven effective in the post-pandemic retail landscape.

The study's findings support the hypothesis that Gucci's digital strategy focuses significantly on Generation Z. By adopting emerging technologies such as augmented reality, virtual reality, AI chatbots, and mobile apps, Gucci has successfully captured the attention and loyalty of younger consumers. The data collected from the questionnaire survey indicates that Generation Z values personalization and digital community engagement, which Gucci has adeptly provided through its innovative marketing campaigns and social media presence.

Moreover, the research highlights the challenge of enhancing the sensory experience in digital shopping environments. Gucci addresses this by utilizing virtual try-on and 3D visualization technologies, allowing customers to interact with products in a more immersive and engaging way. This not only enhances the customer experience but also aligns with the high expectations of digitally native consumers.

In conclusion, Gucci's effective use of big data and digital marketing strategies has enabled it to stay ahead in the competitive luxury market. The brand's focus on personalization, digital community engagement, and sensory experiences through advanced technologies has solidified its appeal to Generation Z and contributed to its overall success. As the digital landscape continues to evolve, Gucci's innovative approach serves as a model for other luxury brands aiming to thrive in the digital age.

6. Limitations

This research faced several limitations. Firstly, the sample size of 189 respondents was relatively small and lacked diversity, potentially limiting the comprehensiveness of the insights. Secondly, while the study focused on Gucci's global digital marketing strategies, it did not fully account for regional differences in consumer behavior. Lastly, the study lacked in-depth qualitative data from industry experts and consumers, which could have provided richer insights into consumer motivations and perceptions.

Future research should aim to address these limitations by including larger and more diverse samples, focusing on regional differences, and conducting longitudinal studies to track changes over time. Incorporating qualitative research methods like interviews and focus groups can provide deeper insights into consumer behavior. Additionally, a comparative analysis of Gucci's strategies with those of other luxury brands could highlight unique and common successful practices, offering a broader context for understanding effective digital marketing in the luxury industry.

References

- [1] C. D'Arpizio, F. Levato, M.A. Kamel, J. de Montgolfier: The future of luxury: A look into tomorrow to understand today (Bain & Company, 2020).
- [2] T.H. Davenport, P. Barth, R. Bean: How 'Big Data' is different, MIT Sloan Management Review, vol. 54(1) (2012), 22-24.
- [3] H. Chen, R.H.L. Chiang, V.C. Storey: Business Intelligence and Analytics: From Big Data to Big Impact, MIS Quarterly, vol. 36(4) (2012), 1165-1188.
- [4] K.M. Eisenhardt: Building theories from case study research, Academy of Management Review, vol. 14(4) (1989), 532-550.
- [5] R.K. Yin: Case Study Research: Design and Methods (2nd ed.), Sage Publications, USA (1994).
- [6] R.E. Hoskisson, M.A. Hitt, W.P. Wan, D. Yiu: Theory and research in strategic management: Swings of a pendulum, Journal of Management, vol. 25(3) (2000), 417-456.
- [7] M.Q. Patton: Qualitative Research and Evaluation Methods (3rd ed.), Sage Publications, USA (2002).
- [8] L2 Inc.: Fashion Brand Digital Index Report (2020).
- [9] Gartner: Digital IQ Index: Luxury 2023, Gartner (2023).
- [10] McKinsey & Company: Digital luxury experience: Keeping up with changing customers, McKinsey & Company (2021). Available at: McKinsey Digital Luxury Experience.