



Data-Driven Digital Marketing, Customer Experience, and Consumer Loyalty: A Literature Review

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Received: 19 December 2025 | Revised: 23 January 2026 | Published: 26 February 2026

Abstract

Purpose: This study aims to synthesize the existing literature on data-driven business strategies, customer experience, and digital marketing in building consumer loyalty, particularly within the e-commerce context.

Research Methodology: This research employs a qualitative literature review approach by analyzing relevant national and international journal articles published in the field of digital marketing, customer experience, and consumer behavior.

Results: The findings indicate that data-driven business strategies significantly enhance marketing effectiveness through personalized targeting and real-time analytics. Customer experience plays a critical role in shaping long-term consumer loyalty, while digital marketing acts as a key intermediary that strengthens the relationship between data utilization and customer retention.

Conclusions: The integration of data-driven strategies, digital marketing, and customer experience creates a strong foundation for improving consumer loyalty in the digital economy.

Limitations: This study is limited to secondary data from literature sources and does not include empirical testing or primary data collection.

Contributions: This research contributes to the literature by providing an integrated conceptual framework linking data-driven strategies, customer experience, and digital marketing in shaping consumer loyalty.

Keywords: *Consumer Loyalty, Customer Experience, Data-Driven Business Strategy, Digital Marketing*

How to Cite: Sani, I., Utami, S., & Sayidah, N. (2026). Data-Driven Digital Marketing, Customer Experience, and Consumer Loyalty: A Literature Review. *InnovaCore Review: Innovation across Business and Accounting*, 1(1), 46–61.

1. Introduction

In the last five years, the development of e-commerce in Indonesia, especially in Jakarta, has increased significantly in line with the growth of the digital economy and wider internet penetration. Based on a report from (We Are Social, 2023), Indonesia has more than 170 million active internet users, most of whom shop online. Large e-commerce companies such as Tokopedia, Shopee, Bukalapak, and Lazada dominate the market with increasingly fierce competition. They leverage data-driven business strategies to improve the operational efficiency and effectiveness of their marketing campaigns. This strategy allows companies to collect, analyze, and use customer data in making strategic decisions, especially in digital marketing. Transaction, purchase behavior, and customer feedback data are processed to optimize offers and improve the personalization of the user experience. However, various studies show that

data-driven decision-making often faces challenges in building long-term consumer loyalty, especially when companies fail to integrate adequate customer experiences into the process.

For example, research by (Xu & Sang, 2022) shows that while data-driven personalization in e-commerce can improve short-term satisfaction, customers are still easy to move to other platforms if the user experience is inconsistent or if there are issues in the service such as slow delivery or poor complaint handling. One of the main problems that e-commerce companies in Jakarta often face is the low level of consumer loyalty. With a large selection of e-commerce platforms offering attractive promotions, consumers tend to switch platforms based on the most profitable offers. According to Keller (2013), highlights that the massive discounts and promotions that e-commerce companies often do to attract new customers, but these strategies rarely build long-term loyalty. Additionally, poor customer experiences, such as inadequate customer service quality, complicated return processes, or delays in product delivery, are often the main causes of customers not returning. A study from (Wilson & Christella, 2019) states that negative experiences in interaction with e-commerce digital platforms tend to have a greater impact on customer loyalty than price or promotional factors.

While data can provide valuable insights to improve digital marketing, failure to improve the customer experience is often a hindrance for e-commerce companies to maintain a loyal customers base. E-commerce companies that implement data-driven strategies can collect and analyze consumer data in real-time. According to (Rane, 2023) in his article states that the use of data analytics allows companies to increase efficiency in crafting more accurate marketing campaigns, targeting customers with personalized offers. However, in many cases, long-term outcomes such US customer loyalty are not always achieved without a positive customer experience. Customer experience is an important factor in creating consumer loyalty, (Shah & Murthi, 2021) mentions that while data-driven personalization help increase initial engagement, customers will be more loyal if they feel they have a good overall experience, such as an intuitive user interface, easy checkout process, and responsive customer service. Thus, customer experience acts as an additional independent factor that contributes to consumer loyalty. In e-commerce, digital marketing serves as an intervening variable that bridges the relationship between data-driven business strategy and consumer loyalty. Digital marketing campaigns powered by data analytics can help companies develop more targeted and personalized strategies, as proven by (Valdez Mendia & Flores-Cuautle, 2022). They found that effective digital marketing can improve the customer experience through a data-driven approach to personalization, which in turn drives loyalty.

Consumer loyalty, as a result of the interaction between independent and intervening variables, is a key goal in e-commerce business strategies, research by (Yeo et al., 2017) shows that although customer loyalty can be earned through data-driven promotional programs, a poor customer experience will quickly eliminate the positive effects of the strategy. Therefore, companies need to maintain a consistent and enjoyable customer experience to maintain long-term loyalty. Although many studies have addressed digital marketing and the use of data-driven strategies, most of them put more emphasis on personalization and promotional aspects. Research that integrates customer experience as an additional independent variable is still limited, especially in the context of e-commerce in Indonesia.

The existing research gap is the lack of comprehensive studies that link customer experience with data-driven strategies in an effort to increase consumer loyalty. Some studies, such as those conducted by (Singh & Kaunert, 2024) only focus on the direct impact of data-driven marketing, without considering the emotional aspects and experiences experienced by customers while interacting with e-commerce platforms. By combining data-driven business strategies, customer experience, and digital marketing in a single research framework, this study offers a new perspective on how e-commerce in Jakarta can build consumer loyalty. This holistic approach expands on previous research by adding customer experience as a critical element in the use of data-driven strategies, which has not been widely explored in the previous

literature.

This article aims to make empirical and theoretical contributions to the digital marketing literature and data-driven strategies, and offer practical guidance for e-commerce companies in building consumer loyalty through an integrated approach.

2. Literature Review

2.1 *Data-Driven Business Strategy and Consumer Loyalty*

Data-driven business strategy refers to a strategic approach in which organizations rely on data analytics, artificial intelligence (AI), and machine learning (ML) to support managerial decision-making. In the digital economy, data is considered a critical asset because it allows companies to understand consumer behavior in a more structured, measurable, and predictive manner. Through continuous data collection and analysis, businesses are able to identify patterns in customer preferences, purchasing habits, and market dynamics that would otherwise be difficult to detect using traditional approaches (Mungara, 2023).

The implementation of data-driven strategies enables organizations to significantly improve operational efficiency and marketing effectiveness. Companies can segment customers more accurately, optimize pricing strategies, and deliver highly personalized marketing messages. This personalization process increases the relevance of promotional content, which in turn enhances customer engagement, conversion rates, and overall satisfaction. Furthermore, data analytics also supports real-time decision-making, allowing companies to respond quickly to market changes and consumer demands (Valdez Mendia & Flores-Cuautle, 2022).

However, despite its strong advantages, data-driven strategy alone is not sufficient to build long-term consumer loyalty. While data can help optimize targeting and increase short-term engagement, it does not fully capture the emotional and psychological aspects of consumer behavior. Therefore, companies must combine data-driven insights with relationship-building strategies, ensuring that customers not only purchase products but also develop emotional attachment and trust toward the brand (Troisi et al., 2023).

2.2 *Customer Experience and Consumer Loyalty*

Customer experience refers to the overall perception and emotional response formed by customers throughout their interaction with a brand. This experience begins from the moment consumers become aware of a product or service, continues through the purchasing process, and extends into after-sales service. It is shaped by multiple touchpoints, including digital interfaces, customer service interactions, product usability, and post-purchase support (Sianipar et al., 2023).

A positive customer experience plays a fundamental role in strengthening customer trust, satisfaction, and loyalty. When customers feel valued, supported, and satisfied during their interactions with a brand, they are more likely to develop repeat purchasing behavior and long-term commitment. Key elements such as service responsiveness, ease of navigation, personalization, and consistency across channels significantly influence how customers evaluate their experience (Molinillo et al., 2022).

On the other hand, negative customer experiences can quickly damage brand perception and reduce loyalty, even if the company offers competitive pricing or strong promotional strategies. Issues such as slow service response, complicated purchasing processes, and lack of support can lead to customer dissatisfaction and switching behavior. Therefore, managing customer experience is not only about improving service quality but also about ensuring consistency and reliability across all customer touchpoints (Urdea & Constantin, 2021).

2.3 Digital Marketing and Consumer Loyalty

Digital marketing refers to the use of online platforms and digital technologies to promote products and services. It includes a wide range of tools and strategies such as social media marketing, search engine optimization (SEO), email marketing, influencer marketing, and content marketing. These tools allow businesses to reach broader audiences, improve brand visibility, and interact more directly with consumers (Kvasova et al., 2023; Manyanga et al., 2022).

Effective digital marketing strategies enable companies to build stronger relationships with their customers by providing more personalized and interactive communication. Unlike traditional marketing, digital platforms allow real-time engagement, where companies can respond directly to customer feedback, inquiries, and preferences. This two-way communication strengthens brand awareness and builds emotional connections with consumers (Kurniawan et al., 2023).

However, the success of digital marketing depends heavily on execution quality and strategic alignment with consumer expectations. Poorly designed campaigns or irrelevant content can reduce engagement and damage brand credibility. Therefore, companies must ensure that digital marketing efforts are consistent, data-informed, and aligned with customer experience strategies to effectively enhance long-term loyalty (Hofacker et al., 2020).

2.4 Integration of Data, Experience, and Digital Marketing

The integration of data-driven strategies, customer experience, and digital marketing represents a holistic approach to building sustainable consumer loyalty. Each component plays a complementary role: data provides insights into consumer behavior, digital marketing delivers targeted communication, and customer experience ensures emotional satisfaction and engagement (Ahmad et al., 2022; Bu et al., 2020).

When these three elements are effectively integrated, organizations can develop more adaptive and customer-centric business models. Data helps identify customer needs, digital marketing translates those insights into personalized communication, and customer experience ensures that expectations are met or exceeded throughout the customer journey. This integration creates a seamless ecosystem that strengthens customer trust and loyalty over time (Chaudhuri et al., 2024).

Moreover, this integrated approach enables businesses to remain competitive in rapidly changing digital markets. Companies that successfully combine analytics, marketing strategies, and experience management are better positioned to retain customers, increase customer lifetime value, and build long-term relationships. In highly competitive e-commerce environments, this synergy becomes a key determinant of sustainable business success (Hofacker et al., 2020; Olson et al., 2021).

3. Methodology

This qualitative research method is designed to provide an in-depth understanding of data-driven business strategies in digital marketing and how they can increase consumer growth and loyalty. By involving various stakeholders and using various data collection techniques, including articles from national, international and reputable journals. This research is expected to produce rich and useful findings for the development of business practices in the digital era. In addition, this article proposes a research framework model as follows:

4. Results and Discussion

4.1 Results

4.1.1 Data-Based Business Strategy on Consumer Loyalty

Data-driven business strategy is an approach that utilizes data as a core element in decision-making and business strategy formulation. In this context, data is collected from various sources, analyzed using advanced analytics technologies and tools, such as big data, artificial intelligence (AI), or machine learning, and applied to improve efficiency, understand customer needs, and design more targeted marketing, operational, and innovation strategies. This strategy allows companies to be proactive in responding to market dynamics in a more precise and fact-based way compared to relying solely on intuition or past experience (Gupta & George, 2016).

The results of the supporting research in this scientific article state that a personalized and well-executed marketing strategy can result in a significant increase in customer engagement metrics, such as click rates, conversion rates, and repeat purchase behavior. Additionally, the study highlights how personalization can drive stronger customer loyalty, as proven by increasing customer satisfaction, brand affinity, and willingness to provide positive recommendations (Rane, 2023). Another study states that the effectiveness of loyalty programs is also analyzed, showing how Big Data can tailor incentives to increase customer loyalty (Ijomah et al., 2024). According to Muhammad and Stukalina (2024), real-time customer communication is very important to increase customer satisfaction and loyalty in e-commerce. By leveraging various communication channels such as social media, chatbots, and live chat, companies can provide fast and efficient communication, reduce cancellation rates, and gain a competitive advantage.

A study from (Kulova & Nikolova-Alexieva, 2023) conveyed in its findings that the implementation of Environmental, Social, and Governance (ESG) strategies can build stakeholder trust and ensure customer loyalty. ESG initiatives improve company reputation, brand perception, and customer behavior, ultimately strengthening relationships with stakeholders, increasing investor confidence, and competitiveness in the market. The results of another study stated that effective supply chain analytics using Business Intelligence (BI) tools is very important to improve customer satisfaction and profitability. BI strategies help companies reevaluate standard BI concepts that combine and consolidate information to support service-oriented businesses in retaining customers and increasing customer loyalty (Esposito et al., 2022).

4.1.2 Customer Experience on Consumer Loyalty

Customer Experience is the perception and emotional response that customers experience during their interaction with a brand, product, or service, either directly or indirectly. It covers the entire customer journey, from product awareness, the purchase process, product usage, to after-sales service. A positive customer experience can increase customer loyalty, satisfaction, and trust, while a negative experience can have a detrimental impact on a business's reputation and sustainability. The customer experience consists of various aspects, including service quality, ease of access, personalization, response speed, and consistent interactions across multiple channels (eg, online, phone, or face-to-face). A company's focus on customer experience often aims to create a deep impression, satisfy customer needs, and build long-term relationships (McColl-Kennedy et al. (2015)).

A study from (Urdea & Constantin, 2021) states that to achieve positive results, a business must prioritize customer loyalty, which is understood from a relational point of view as the tendency of consumers to maintain a stable relationship with the brand. This includes regular visits to the site and, ultimately, repeat purchases. Another study states that Factors such as Attention, Character, Choice, Comfort, Customization, and Development have a positive influence in shaping electronic customer loyalty. In general, e-commerce is seen as a pioneer in the modern business world, which is demonstrated through increased profits and growth in market share, thanks to its focus on loyal customers to electronic platforms

(Al-Ayed, 2022). Another result states that online customer experience, measured through factors such as shopping environment, shopping procedures, staff service experience, and product experience, has a significant influence on customer engagement, which further contributes to increased customer loyalty (Ahmad et al., 2022).

Other results stated that the customer experience was influenced by all dimensions of the store attribute variables, including the product, communication with staff, store atmosphere, and ease of transaction. In addition, the study indicates that customer experience also has a positive impact on brand love and brand loyalty (Anggara et al., 2023). Another study states that the affective dimension shows the most significant influence and emphasizes the importance of sensory experience, which even exceeds cognitive experience. On the other hand, the influence of the relational dimension on customer satisfaction cannot be confirmed positively. An analysis of the effects of moderation based on gender, age, and type of device used reveals effects that have not been discussed in the current literature (Molinillo et al., 2022). Research results from (Cachero-Martínez & Vázquez-Casielles, 2021). Stating The use of diverse experiences can affect loyalty in two different ways: first, it directly affects attitude loyalty, especially when trust in the website is low and consumers face more uncertainty; Second, it indirectly influences behavioral loyalty through emotional experiences.

4.1.3 Digital Marketing on Customer Loyalty

Digital marketing is the process of marketing a product or service through a digital platform, which includes the internet and mobile devices. It covers a wide range of strategies and techniques, including SEO (Search Engine Optimization), content marketing, digital advertising, social media, email marketing, and data analysis. The main goal is to reach a wider range of consumers, build a brand, and increase customer engagement and conversion Taherdoost (2023). The results of the study stated that the influence of digital marketing (DM) on customer loyalty in Islamic banks in Jordan, suggested that Islamic banks in Jordan increase their use of social media by providing interactive and instant chat tools to promote products and services and establish better communication with customers (Al-Adamat et al., 2023).

Another study states that E-marketing has a significant effect on customer satisfaction, but does not directly create customer loyalty. However, customer satisfaction has a significant impact on customer loyalty, and perceived value acts as a mediator in the relationship between e-marketing and the two variables (Alkufahy et al., 2023). Another study stated that all aspects of the model showed a positive correlation to the quality of electronic services and their effect on customer satisfaction and the intention to remain loyal (Natalina & Wahyuni, 2022). Another study states that out of the five components of social media marketing activities (SMMA), it was revealed that entertainment and trends have a positive impact on brand awareness. In contrast, interactivity, customization, and electronic recommendations do not have a positive impact on brand awareness. On the other hand, brand awareness has been shown to have a positive impact on customer loyalty (Zafira & Hartono, 2023).

The results of research from (Almohaimmeed, 2019) state that Antecedents of social media marketing have a significant influence on the three constructs. Social media marketing also has a significant effect on brand loyalty and purchase intent. Additionally, brand loyalty shows a significant impact on purchase intent. Another study in the results stated that Brand overview and multichannel marketing have a significant positive influence on customer satisfaction and customer loyalty. In addition, customer satisfaction also has a significant positive effect on customer loyalty, with brand description and multichannel marketing influencing customer loyalty through customer satisfaction as a mediating variable (Natalina & Wahyuni, 2022).

4.2 Data-Based Business Strategy on Digital Marketing

The results of the research support that the Internet has drastically changed the business landscape by producing various digital marketing strategies. However, with the advent of these new tactical options, marketing managers must set priorities over the goals they want to achieve and choose the right digital marketing tactics to invest in. We review this issue from the perspective of four business strategies: prospectors, analysts, low-cost defenders, and defenders of differentiation (Olson et al., 2021).

Other studies also state that it is crucial in understanding future developments in digital marketing and B2B relationships: coopetition, value creation collaboration, B2B branding, innovation networks, relationship dynamics, and aspects of power and trust (Hofacker et al., 2020), the role of user privacy in data driven innovation (DDI) in the digital market (Saura et al., 2021).

Other research results from (Kvasova et al., 2023) state that the role of digital platforms, social media, and e-commerce in today's marketing, as well as the ability of data analysis and artificial intelligence in understanding consumer behavior and optimizing marketing strategies, other results also state aspects such as online information search, engagement on social media, shopping patterns through e-commerce, and content consumption habits. This study explores the impact of these behaviors on marketing strategy optimization, by highlighting the importance of content personalization, advertising on social media, improving e-commerce platforms, and data-driven decision-making (Guan, 2023). Other studies state that improving personalization, optimizing user experience on mobile devices, adopting influencer marketing, leveraging social media platforms, implementing data-driven marketing strategies, as well as investing in augmented and virtual reality technologies (Jiang, 2023).

4.3 Customer Experience on Digital Marketing

The results of the study relate to this variable where it is said that digital marketing techniques have a significant role in shaping user experience and customer engagement. Marketing content delivered through digital platforms can influence consumers' purchasing decisions and also determine their level of loyalty (Trajković et al., 2024). Another study also states that Alibaba, as one of the largest e-commerce companies in China, uses big data analytics to improve the customer experience. Through the application of AI and machine learning algorithms, Alibaba processes large amounts of data to gain important insights related to user behavior, market trends, and supply chain information (Tang, 2024). Other results also state that the dynamic shift from traditional marketing to digital marketing has changed the way brands interact with customers. Digital marketing opens up great opportunities for more targeted advertising, direct interaction, and the ability to measure campaign effectiveness. Examples of companies like Nike and Dove show how digital strategies bring significant change. These strategies underscore benefits such as targeted marketing, real-time performance tracking, cost efficiency, and closer connection with consumers (Singh, 2024).

The results state that AI has evolved into an influential tool in digital marketing, supporting companies in analyzing big data, finding patterns, and making decisions. AI plays a role in improving the customer experience through campaign optimization and improving marketing practices. AI is applied in various areas of digital marketing, such as customized content creation, the use of chatbots for customer service, predictive analytics for segmentation, as well as recommendation engines for products (Zaidi, 2024).

4.3.1 Implementation of Data-Based Business Strategy on Consumer Loyalty

Previous research results related to this variable come from articles from existing journals, where the results of research state the importance of maintaining genuine human relationships in the midst of the automation process, and using insights from IoT to develop adaptive services to increase customer trust and loyalty (Moshed & Al-Jabaly, 2024). Another study also states that brand loyalty is a crucial factor for sustainable business success in the consumer durables sector, especially with technological

developments and changes in market dynamics (Bing et al., 2024). The results of the study state that it proposes a dual strategy to optimize revenue from digital subscriptions and advertising, emphasizing the importance of a data-driven engagement approach (Fernandes et al., 2024).

Another study also states that an effective data-driven marketing strategy can significantly improve consumer engagement, brand loyalty, and overall marketing effectiveness (Rolando & Mulyono, 2024). Another study from (Rahman, 2023) also states that quality and sustainable innovation are the play factors in maintenance brand loyalty among luxury consumers, while online shopping preferences are influenced by aspects such as product variety and free delivery services. Another result found that to develop a conceptual framework that categorizes the dimensions that enable the Data Driven Business Model (DDBM) in the smart hospitality ecosystem (Troisi et al., 2023).

Other research results state that a data-focused culture in an organization provides an important moderating influence on product innovation and process improvement, which can ultimately increase business value through improving the overall performance of the organization (Chaudhuri et al., 2024). Another study also states that first, the feature selection algorithm improves the optimization efficiency on OSSC big data samples. Second, the visualization and quality of information affect customer purchasing behavior. Finally, the relationship between optimal price and level of visualization was analyzed using the Stackelberg game approach (Li et al., 2021). The related research also states that a deeper explanation of the results is through the decline in the value of eWoM influencing the buyback behavior of customer company representatives. From these findings, it is recommended that managerial measures to strategically manage digital technology, in order to strengthen trust in eWoM and increase value for B2B customers (Belhadi et al., 2023).

4.3.2 Implementation of Customer Experience on Consumer Loyalty

Previous research has shown that practical and social values not only encourage customers to be loyal to the community, but also increase their loyalty to the brand, with a greater influence on community loyalty than brand loyalty. However, the entertainment value does not have any significant influence on the loyalty of either the community or the brand. The influence of practical and social values on community loyalty is fully mediated by brand loyalty, while the influence of practical and social values on brand loyalty is fully mediated by community loyalty (Bu et al., 2020). In the field of banking services, the results of the study state that banks are encouraged to pay attention to customer experience, satisfaction levels, intention to share information (word-of-mouth), and age factors when designing strategies to increase customer loyalty (Manyanga et al., 2022).

The results of the related study suggest that the seamless travel model is best suited for instrumental services that help complete tasks, while the attractive travel model is more appropriate for recreational services that offer endless adventures. To set the flow of each type of trip, companies are encouraged to drive purchases during the initial service cycle on a smooth trip, or on the next service cycle on an interesting trip (Siebert et al., 2020). Another study states that the influence of personalization on customer experience and loyalty, as well as the influence of hedonic motivation on customer experience, showed positive and significant results. Similarly, the influence of customer experience on loyalty and the influence of customer experience and loyalty on repurchase intent are also positive and significant. However, the influence of hedonic motivation on customer loyalty does not show statistical significance (Bakhshandeh et al., 2023).

4.3.3 Implementation Digital Marketing on Customer Loyalty

The results of previous research stated that digital marketing has a positive influence on customer loyalty. For example, a study of Tokopedia in Indonesia found that digital marketing, customer trust, and customer satisfaction all had a positive effect on customer loyalty among millennials (Kurniawan et al., 2023).

Other research also states that product quality and digital marketing can significantly affect customer loyalty. For example, a study on Somethinc products found that product quality influences customer loyalty through digital marketing (Faradila & Shiddiqy, 2024). Another study stated that the role of public relations strategy, product branding, and digital marketing in driving company growth and customer loyalty was also very significant (Illalia et al., 2023).

Another study states that the role of public relations strategy, product branding, and digital marketing in driving company growth and customer loyalty is also very significant (Saura et al., 2021). Another outcome statement also states that the role of customer loyalty mediation in digital marketing success is also important. A study of commercial banks in Ethiopia analyzed the Confirmatory Factor Analysis (CFA) of digital marketing success on business performance, highlighting the mediating effect of customer loyalty (Wakjira, 2023). Two of the three variables, namely sustainable marketing and partnerships, have a significant influence on both types of banks. Sustainable marketing is the dominant variable in conventional banks, while partnerships are the dominant variable in Islamic banks (Munandar et al., 2022).

4.3.4 Implementation of Data-Based Business Strategy on Digital Marketing

Previous research results state that using data analysis helps businesses better understand customer preferences and actions. This knowledge supports marketing efforts aimed at specific groups (Eshbayev & Yakhshiboeva, 2023; Mungara, 2023). Another study also states that companies are using predictive analytics more to predict how customers act and improve marketing plans. For example, AI methods can look at transaction data to find patterns and suggest product bundles, which can help increase sales opportunities (Pratama et al., 2024).

Another study states that data-based methods help organizations to check how well their marketing works using numbers like engagement rates, conversion rates, and return on investment (ROI). This ongoing analysis is important for adjusting plans and getting better results (Rane, 2023). Another study also states that platforms like Facebook, Instagram and Twitter must be used to interact with customers. Social media captures a lot of data around how consumers are interacting with you, which can be used to improve your future campaigns.

4.3.5 Implementation Customer Experience on Digital Marketing

The results of previous research derived from articles from journals found provide the basis for this variable in this scientific article. Results that state that Anxiety and client loyalty may rise dramatically when personalized product suggestions and consumer happiness are provided (Baddam, 2022; Bajaja, 2024). Service quality and product quality play an important role in influencing customer satisfaction and loyalty. In this context, both the quality of the product and the service must be managed adequately to improve the overall consumer experience. In addition, elements such as convenience and price also exert a significant influence, which suggests that companies must create the right balance between all of these factors to maximize consumer satisfaction and desired purchasing behavior (Bajaja, 2024).

Through attention to these elements, companies can increase repurchase intent, build customer loyalty, and ensure that their products and services match consumer expectations. Good product quality and service quality provide a guarantee of business sustainability in the long term (Sianipar et al., 2023). Another study also states that these technologies enable long-term benefits that can significantly increase customer satisfaction. As an example, chatbots based on artificial intelligence, such as provide a personalized user experience by increasing user satisfaction through timely and relevant responses (Vannam & Phung, 2024). Results other states that shopping value and self-mental images are significantly impacted by each of the five aspects of the digital kiosk consumer experience—sensorial, pragmatic, cognitive, and social. In the relationships between the elements of the experience and the behavioral intentions, they

draw attention to the greatest impacts as well as the quasi-generalized mediating function of these values and this self-mental imagery (Lao et al., 2021).

Another study in its research results stated that modern marketing techniques include corporate blogging, social media marketing, email marketing, affiliate marketing, search engine optimization, and word-of-mouth (eWOM). Social media marketing has been shown to be the most successful tactic among those for firms looking to optimize customer experience (Nuseir et al., 2023).

4.4 Discussion

Research on the implementation of data-driven business strategies shows that integrating data in business decision-making has a significant impact on consumer loyalty. A study from (Moshed & Al-Jabaly, 2024) highlights the importance of maintaining human relationships amid business process automation while leveraging data from the Internet of Things (IoT) to create more adaptive services. This is in line with the view that a data-driven approach can strengthen brand loyalty and customer trust. In the durable goods sector, brand loyalty is crucial, especially with rapid technological changes and evolving market dynamics (Bing et al., 2024). Data-driven marketing strategies also play a big role in increasing consumer engagement and loyalty, ultimately improving overall marketing effectiveness (Rolando & Mulyono, 2024). This is reflected in Rahman (2023) which emphasizes that continuous quality and innovation can maintain brand loyalty, especially among luxury consumers.

In addition, data can also help companies understand patterns of consumer behavior through predictive analysis methods. This method allows companies to predict consumer actions and more effective marketing strategies (Pratama et al., 2024). For example, AI can analyze transaction data to identify buying patterns and recommend product bundling that increases sales opportunities. In the context of customer experience, practical and social values are proven to be important factors in driving loyalty, both to the community and to the brand (Bu et al., 2020). In the banking sector, research by Manyanga, Makanyeza, and Muranda (2022) emphasizes the importance of customer experience in shaping loyalty, especially through satisfaction and intention to share word-of-mouth information.

Meanwhile, digital marketing also plays a significant role in building customer loyalty. In Indonesia, a study by (Kurniawan et al., 2023) shows that digital marketing, trust, and customer satisfaction have a positive influence on loyalty among millennials. The same thing was also found in another study that stated that digital marketing and product quality can increase customer loyalty (Faradila & Shiddiqy, 2024). In Ethiopia's banking sector, customer loyalty has proven to be an important mediating variable in the success of digital marketing on business performance (Wakjira, 2023).

Additionally, data-driven business strategies can improve the effectiveness of digital marketing by providing deeper insights into consumer preferences. Through the use of social media, companies can monitor consumer interactions and optimize future marketing campaigns (Zafira & Hartono, 2023). Ultimately, related research confirms that customer experience driven by service personalization, product quality, and service quality has a significant impact on loyalty and repurchase intent (Bakhshandeh et al., 2023). Technologies such as AI-based chatbots are also key in improving customer satisfaction through responsiveness and relevant services (Vannam & Phung, 2024). Numerous studies have demonstrated the efficacy of integrating data-driven tactics with successful digital marketing and ongoing client loyalty initiatives. This demonstrates the need for having integrated and comprehensive business processes to guarantee continuous corporate success in the digital era.

5. Conclusions

From the summary provided in this article on research design, it has already been discussed how effective it is to combine data-driven strategies with ongoing customer loyalty programs and successful digital

marketing. This highlights the necessity of comprehensive and integrated business procedures to ensure ongoing company success in the digital age. In addition, every variable has a positive correlation. Thus, the research results may give rise to questions that might be posed as references for future researchers.

Acknowledgements

The authors would like to express their gratitude to all researchers and scholars whose works were used as references in this study. Appreciation is also extended to colleagues who provided feedback and support during the writing process. This study did not receive any external funding.

Author Contributions

IS contributed to conceptualization, writing of the original draft, and methodology development. SU was responsible for literature collection, review, validation, and editing of the manuscript. NS contributed to supervision, critical review, and final approval of the manuscript. All authors contributed equally to the final review and approval of the manuscript.

Conflicts of Interest

The authors declare that there is no conflict of interest regarding the publication of this study. This research was conducted independently, and no financial or personal relationships influenced the results or interpretation of the findings.

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