

# A Comprehensive Study of Data-Driven Approaches in Marketing and Consumer Dynamics

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## ABSTRACT

In today's rapidly evolving business environment, the ability to understand and anticipate consumer trends is essential for gaining a competitive edge. Although data-driven marketing has gained prominence, there remains a research gap in understanding how integrated data analytics frameworks directly influence consumer dynamics across diverse market segments. The primary objective of this study is to examine how data-driven approaches enhance marketing effectiveness, consumer engagement, and brand loyalty. The research employs a mixed-method approach combining case study analysis, secondary data review, and empirical insights gathered through structured surveys. Findings indicate that data-driven marketing significantly improves customer segmentation accuracy, enhances predictive capabilities, and supports real-time decision-making, ultimately leading to higher customer satisfaction and retention. This study also explores fundamental components such as consumer segmentation, predictive analytics, and real-time data tracking while addressing challenges related to skill requirements, data integration complexities, and privacy concerns. The key findings offer actionable strategies for businesses to leverage data effectively and strengthen their marketing outcomes in a competitive marketplace.

**Keywords:** *Marketing, Consumer Behaviour, Data-Driven Marketing.*

## 1. INTRODUCTION

The rapid advancement of digital technologies and the widespread availability of information have transformed modern consumers into highly informed, independent, and discerning decision-makers. Traditional marketing messages that overlook individual needs are increasingly ignored, as consumers gravitate toward brands that offer personalized solutions and experiences. In such a dynamic environment, continuously evolving consumer purchasing patterns demand a deeper understanding of the ideal customer profile and the behavioural forces influencing purchase decisions.

Understanding the psychological, emotional, and cognitive factors shaping consumer choices has therefore become a critical component of competitive marketing strategy.

With the expansion of digital ecosystems, data-driven marketing has emerged as a crucial approach for analysing the attitudes and emotions that guide consumer decisions. The integration of e-commerce, digital platforms, and marketing analytics has become indispensable in identifying consumer preferences and predicting buying behaviour (Cloarec, 2022). Marketing analytics is now recognized as a foundational pillar of marketing research, enabling businesses to design robust marketing models that decode customer responses, assess promotional effectiveness, and refine marketing strategies (Grandhi, 2021). The widespread adoption of big data, machine learning, and artificial intelligence has further strengthened the shift toward data-led innovation (Camilleri, 2018).

Data-driven marketing aims to generate actionable consumer insights by collecting, processing, and analysing complex datasets from multiple online and offline touch points. Such insights enhance marketers' understanding of customer psychology, preferences, and buying patterns, ultimately enabling the creation of personalized, relevant, and timely marketing interventions (Kar, 2023). As a result, businesses can cultivate stronger relationships with their target audience, enhance trust and loyalty, and drive sustained profitability. Recent global surveys indicate that 80% of marketers believe data is essential for successful marketing execution, while 77.4% express optimism about the potential of data-driven strategies to improve business growth (Kallevig, 2022).

Despite its transformative value, the integration of data into marketing systems presents several challenges. Scholars have identified concerns related to consumer privacy, data security vulnerabilities, biased datasets, transparency limitations, and third-party data misuse (Jain, 2021). Additionally, although interest in data-driven marketing is growing, existing academic literature remains fragmented and lacks a unified theoretical perspective (Sheth, 2021). This fragmentation underscores the need for a systematic investigation into how data-driven approaches shape both marketing practices and consumer dynamics.

Studies focusing on specific consumer groups, particularly millennial, highlight the importance of personalization in enhancing engagement and brand resonance. Research shows that personalized content significantly influences millennial behaviour by aligning marketing messages with individual preferences, thereby boosting relevance and interaction (Kumar, 2013). Tailored marketing strategies create stronger emotional and psychological connections, promoting long-term loyalty and brand advocacy

(Duong, 2022; Jabbar, 2020). Furthermore, targeted and value-aligned content strengthens brand perception and encourages deeper, more meaningful customer–brand relationships (Abakouy, 2022).

### **Problem Statement**

Despite the growing adoption of data-driven marketing, there remains a limited understanding of how integrated data analytics frameworks directly influence consumer behaviour, decision-making patterns, and engagement across diverse market segments. Existing research is fragmented, lacking cohesive evidence that links data-driven strategies with measurable shifts in consumer dynamics.

## **2. RESEARCH OBJECTIVES**

This study aims to:

- Examine the role of data-driven approaches in enhancing marketing effectiveness and strategic decision-making.
- Analyse how data analytics influences consumer behaviour, engagement, and brand loyalty.
- Identify challenges and limitations associated with the adoption of data-driven marketing.
- Propose actionable strategies for businesses to leverage data effectively to improve marketing performance.

## **3. LITERATURE REVIEW**

Recent advancements in digital technologies have significantly transformed marketing practices, with data-driven strategies emerging as a central component in understanding consumer behaviour, especially among millennial. Scholars emphasize that today’s consumers expect seamless, personalized, and interactive brand experiences, prompting organizations to adopt integrated technological frameworks to stay competitive.

### **• Omni channel Integration and Consumer Engagement**

A growing body of research underscores the importance of Omni channel integration in delivering unified and consistent customer experiences. Omni channel strategies allow businesses to synchronize social media, websites, mobile apps, email, and physical touch points to create a cohesive brand presence. Studies highlight that this integration enhances brand visibility, engagement, and satisfaction, particularly among millennial consumers who value convenience and personalization (Huang, 2020).

Several empirical studies indicate that businesses implementing omnichannel strategies experience higher brand recall and stronger customer relationships. For instance,

Gabelaia (2022) found that omni channel campaigns significantly improve millennial loyalty and repeat purchase intentions. However, some scholars argue that maintaining platform consistency poses operational challenges and requires significant technological investments. Moreover, the literature often fails to consider differences in Omni channel effectiveness across cultural, regional, or product-specific contexts, presenting a gap for further examination.

- **Predictive Analytics and Behavioral Forecasting**

Predictive analytics has become a vital tool in data-driven marketing, supporting businesses in interpreting consumer patterns and forecasting future behaviors'. Kallevig (2022) asserts that predictive tools enable organizations to adapt marketing strategies proactively, refine product offerings, and tailor messages to align with evolving consumer expectations. Jabbar (2020) supports this view, emphasizing that predictive models offer a competitive advantage by enabling firms to optimize pricing, promotions, and resource allocation.

Despite these benefits, recent studies (e.g., Patel & Singh, 2023) critique the overreliance on predictive models, arguing that algorithmic biases and incomplete datasets can lead to flawed interpretations. Furthermore, while predictive analytics is widely discussed, limited research explores its long-term implications on consumer trust, particularly regarding concerns over privacy and data transparency.

- **Data-Driven Personalization and Millennial' Behavior**

Personalization continues to be a dominant theme in consumer behavior research. Studies indicate that millennial respond more positively to content tailored to their preferences, values, and behavioral patterns. Research by Kumar (2013) and updated findings by Duong (2022) and Abakouy (2022) demonstrate that personalized communication enhances emotional engagement, builds stronger brand ties, and fosters long-term loyalty.

However, while personalized marketing is widely celebrated, scholars such as Roberts & Candi (2021) caution that over-personalization can lead to consumer discomfort, especially when data use lacks transparency. The literature suggests a need for exploring the balance between personalization benefits and perceived intrusiveness.

- **Empirical Studies on Data-Driven Marketing**

Empirical research further supports the relevance of data-driven strategies in understanding consumer trends. Srivastava (2023), through a descriptive quantitative study involving 135 valid responses, found that data-driven insights significantly improve marketers' ability to predict trends and design targeted campaigns. Similarly, Kim &

Park (2023) highlight that organizations adopting robust analytics frameworks outperform competitors in customer satisfaction and retention metrics.

Nevertheless, much of the empirical work remains limited by small sample sizes, narrow demographic focus, and single-region datasets, indicating the need for broader, more diverse studies.

#### **4. IDENTIFIED GAPS IN THE LITERATURE**

A synthesis of existing studies reveals several gaps:

- Fragmented literature on how integrated data analytics frameworks influence consumer dynamics holistically.
- Limited cross-cultural or cross-generational comparisons of data-driven marketing effectiveness.
- Insufficient research on ethical concerns, algorithmic fairness, and long-term effects on consumer trust.
- Overemphasis on millennial, with fewer studies addressing Gen Z—despite their rising market significance.

These gaps reinforce the need for a comprehensive study exploring data-driven approaches across diverse marketing and consumer landscapes.

#### **5. RESEARCH METHODOLOGY**

For the purpose of enhancing comprehension of the critical analysis concerning the significance of data-driven marketing in interpreting consumer trends, the researcher has chosen to conduct the study using a descriptive research approach. For this particular study, a quantitative approach has been utilized, and the researcher will be responsible for compiling and analysing the data obtained from the respondents. Through the use of the questionnaire method, the author decided to collect the necessary information. Both primary and secondary sources are utilized in this investigation. One hundred thirty-five out of the one hundred fifty questionnaires that were distributed were filled out and handed back to the researcher for review.

##### **Analysis**

This section deals in presenting detailed data analysis based on the information collated through primary data source.

**Table 1: Demographic analysis**

<b>Respondents Gender</b>	<b>Frequency</b>	<b>Percent</b>
Male	113	68.1
Female	53	31.9
Total	166	100
<b>Respondents Age</b>	<b>Frequency</b>	<b>Percent</b>
Less than 25 Years	24	14.5
26 - 35 Years	87	52.4
36 - 45 Years	39	23.5
Above 45 Years	16	9.6
Total	166	100
<b>Education</b>	<b>Frequency</b>	<b>Percent</b>
Urban	49	29.5
Rural	117	70.5
Total	166	100
<b>Qualification</b>	<b>Frequency</b>	<b>Percent</b>
Completed UG	50	30.1
Completed PG	76	45.8
Professional course	40	24.1
Total	166	100
<b>Experience</b>	<b>Frequency</b>	<b>Percent</b>
Less than 5 Years	39	23.5
5 - 10 years	48	28.9
10 - 15 years	29	17.5
15 -20 years	18	10.8
More than 20 years	32	19.3
Total	166	100

The gender distribution of responses indicates a greater engagement of men, with 68.1% (113 respondents) compared to 31.9% (53 respondents) for females. This indicates a significant gender disparity in the sample, suggesting that male respondents dominate the data set. Understanding the impact of gender on consumer trends or behaviours necessitates a knowledge of this gap. The predominant age group represented is 26–35, with 52.4% of responses belonging to this category. The subsequent largest demographic, at 23.5%, is individuals aged 36 to 45; this is succeeded by those under 25 at 14.5%, and finally, individuals over 45 years at 9.6%. This inclination towards a younger to middle-aged demographic suggests that the findings of the study predominantly reflect the perspectives and behaviours of individuals in the early to mid-stages of their careers. Regarding educational background, 29.5% of respondents reside in metropolitan areas, while a significant 70.5% are from rural regions. This significant rural representation highlights the

perspectives of individuals from less urbanized regions, perhaps influencing their perceptions of consumer trends or data-driven marketing.

Concerning educational qualifications, 45.8% have completed a postgraduate degree, followed by 30.1% with an undergraduate degree and 24.1% with a professional course certification. The predominance of respondents with advanced degrees indicates that the sample is highly educated, maybe reflecting a more informed or nuanced understanding of the subjects being studied. The respondents' employment experience demonstrates a wide range. Most individuals possess between 5 and 10 years of experience, comprising 28.9%; those with fewer than 5 years account for 23.5%, while individuals with over 20 years of experience represent 19.3%. The remainder possess between 15–20 years (10.8%) and 10–15 years (17.5%) of experience. This diversity of experience levels enriches the data by incorporating perspectives from individuals at all stages of their careers, from novice professionals to highly experienced personnel.

**Table 2: Correlation analysis**

Correlations	Personalization of Marketing Campaigns	Consumer Behavior Analytics	Real-time Data Tracking	Data driven decision making
Personalization of Marketing Campaigns	1	.894**	.839**	.866**
Consumer Behavior Analytics	.894**	1	.857**	.871**
Real-time Data Tracking	.839**	.857**	1	.835**
Data driven decision making	.866**	.871**	.835**	1

Within the context of data-driven marketing, the correlation matrix reveals robust positive associations among the variables, hence signifying their interdependence. Consumer Behaviour Analytics ( $r = .894$ ) indicate a moderately strong correlation with the personalization of marketing initiatives, suggesting that comprehensive insights into consumer behaviour are heavily utilized as marketing efforts become increasingly tailored to effectively target audiences. Similarly, the personalization of marketing campaigns exhibits a significant positive correlation with real-time data tracking ( $r = .839$ ), indicating that highly tailored marketing strategies are largely influenced by the real-time observation of consumer interactions. The correlation coefficient of  $r = 0.857$  indicates a robust association between Consumer Behaviour Analytics and Real-time Data Tracking, signifying that continuous collection of consumer behaviour data enhances the ability to predict and respond swiftly to market changes. The significant correlation between customer Behaviour Analytics and Data-driven Decision Making ( $r = .871$ ) emphasizes the importance of customer insights in making informed marketing decisions, hence reinforcing this relationship. Ultimately, data-driven

decision making has robust correlations with Real-time Data Tracking ( $r = .835$ ) and Personalization of Marketing Campaigns ( $r = .686$ ). This indicates that in a data-driven context, utilizing real-time data and personalizing marketing strategies are essential components of an effective decision-making process. The robust connections demonstrate a cohesive system wherein consumer analytics, real-time data, personalization, and decision-making are intricately interconnected to optimize marketing effectiveness.

### Test of hypothesis

**Table 3: ANOVA 1**

<b>Personalization of Marketing Campaigns</b>	<b>Sum of Squares</b>	<b>df</b>	<b>Mean</b>	<b>F</b>	<b>P val</b>
Between Groups	187.73	4	46.93	235.26	0.00
Within Groups	34.31	172	0.19		
Total	222.04	176			

The dependent variable, ANOVA results for the personalization of marketing campaigns utilizing data-driven marketing to comprehend consumer trends, yield significant findings. A considerable portion of the variance in data-driven marketing can be attributed to differences in the personalization of marketing strategies; the between-groups sum of squares is 187.73, while the within-groups sum of squares is 34.31. At a 95% confidence level, the F-value of 235.26 and a p-value of 0.00 indicate statistically significant differences. This indicates that data-driven marketing strategies on consumer trends are significantly affected by the personalization of marketing campaigns. The low mean square among groups (0.19) highlights the minimal variation among the groups, so reinforcing the reliability of the relationship between personalization and data-driven marketing efficacy. The findings strongly suggest that customized marketing campaigns significantly influence the effectiveness of data-driven marketing strategies in understanding client behaviour and trends.

**Table 4: ANOVA 2**

<b>Consumer Behavior Analytics</b>	<b>Sum of Squares</b>	<b>df</b>	<b>Mean</b>	<b>F</b>	<b>P val</b>
Between Groups	179.43	4	44.85	181.08	0.00
Within Groups	42.61	172	0.25		
Total	222.04	176			

The dependant variable in the ANOVA study on Consumer Behaviour Analytics, utilizing Data-Driven Marketing to comprehend Consumer Trends, demonstrates significant results. The between-groups sum of squares of 179.43 indicates that consumer behaviour analytics significantly influences the variation in data-driven marketing. The within-groups sum of squares is 42.61, indicating that the variance within groups is quite moderate in comparison to the variance between groups. The p-value of 0.00 and an F-value of 181.08 indicate that consumer behaviour analytics strongly effects data-driven marketing. This significance level indicates that alterations in consumer behaviour analytics result in substantial changes in the effectiveness of data-driven marketing strategies. The study highlights that variance between groups—specifically, differing levels of consumer behaviour analytics—exert a far greater influence on data-driven marketing success than the minimal variability observed within the groups, as indicated by a low mean square within groups (0.25). This finding underscores the significant role of consumer behaviour analytics in enhancing data-driven marketing strategies to accurately understand and predict consumer trends.

**Table 5: ANOVA 3**

<b>Real-time Data Tracking</b>	<b>Sum of Squares</b>	<b>df</b>	<b>Mean</b>	<b>F</b>	<b>P val</b>
Between Groups	176.92	4	44.23	168.59	0.00
Within Groups	45.12	172	0.26		
Total	222.04	176			

The between-groups sum of squares of 176.92 indicates that real-time data tracking technologies significantly elucidate the variance in data-driven marketing success. The groups exhibit minimal variability, indicated by a within-groups sum of squares of 45.12. The F-value of 168.59 and the p-value of 0.00 indicate a statistically significant effect of real-time data tracking on data-driven marketing. The low p-value, indicating a probability of less than 0.05 for the outcome being due to chance, illustrates that the relationship between real-time tracking and the effectiveness of data-driven marketing is quite reliable. The low mean square among groups (0.26) further substantiates the identification of large and meaningful variances in real-time data tracking within groups. The findings indicate that effective real-time data tracking is essential for enhancing data-driven marketing strategies, as it provides timely and actionable insights into consumer behaviour, facilitating more precise and successful marketing decisions.

## 6. DISCUSSION

The importance of data in the field of marketing has grown significantly in the modern era of digital technology. Firms are increasingly endowed with huge quantities of data that are available for analysis and interpretation as technology continues to evolve. This makes it easier for firms to make decisions based on the data and improves marketing tactics. This plethora of data acts as a lens through which market trends and patterns can be observed, so providing significant insights into the behaviours, purchasing habits, and preferences of customers. In the current environment, which is characterized by growing uncertainty and fierce competition, businesses are required to uphold their obligations to customers even in the face of intense competition (Srikasem, 2022). Delivering relevant products through the proper channels at the precise moment that they are required is a part of this. Consequently, the collecting and analysis of consumer data is crucial since it improves understanding of target audiences and makes it easier to customize products in order to guarantee relevance (Hashem 2021).

The process of mapping the customer journey is a method that is used to outline the activities and touchpoints that define the interactions that customers have with a company, beginning with the initial awareness and continuing all the way through the post-purchase involvement. The customer journey is viewed as a "data value chain" by the mapping approach, which highlights significant events that have an impact on the consumer experience and future brand connections. Methodologies that are driven by data make it possible for businesses to make use of consumer data and analytics in order to gain an understanding of the customer journey and to put this knowledge to use in order to build and launch marketing activities that are more successful (Abakouy, 2022). A further advantage of data-driven customer journey mapping is that it helps advertisers to comprehend the interactions that customers have at each touchpoint, which in turn makes it easier to provide a customized experience for individual customers. The interest of a customer in a product or service can be demonstrated through the use of visualizations and monitoring based on the customer's previous purchases or browsing behaviour. Because of this data, firms are able to provide recommendations and offers that are highly personalized.

Rather than relying on one's own intuition or guesswork, data-driven decision-making involves making an informed choice that is founded on data and analytics information. According to the findings of some researchers, managers who are driven by data employ data-analytic thinking in the process of making decisions for their businesses. Using factual data as a foundation, this technique forecasts potential difficulties or

problems that could negatively impact the decision-making process. As a result, it guides behaviour and makes alterations easier to implement. Because they rely on the collecting and analysis of customer behaviour, market trends, and other pertinent aspects, data-driven marketing strategies are connected with improved decision-making. This is because these techniques are so dependent on the data. Increasing the likelihood of favourable outcomes can be accomplished by basing decisions and tactics on statistical information from the beginning. One of the most major advantages of making decisions based on data is that it improves one's ability to recognize patterns and trends that might not be immediately apparent through observation or intuition. Because of this, firms will be able to recognize new possibilities or dangers and modify their plans accordingly. The use of data technologies gives businesses the ability to evaluate the efficacy of a variety of marketing techniques and other marketing operations. The monitoring and evaluation of data on critical performance indicators (KPIs) can be accomplished with the use of tools and approaches that are provided by big data and analytics. The creation of marketing plans and the identification of effective channels can be facilitated with the use of these key performance indicators (KPIs), which can also advise necessary adjustments for industries that are pursuing growth.

The rise of information and communication technology has made value co-creation a main opportunity that has become available as a result of these advancements. Through the usage of this strategy, customers are encouraged to contribute to the process of creating value for a product or service. The use of social media and the Internet by businesses gives them the opportunity to communicate with customers, which in turn helps them better comprehend the requirements and preferences of customers (Duong, 2022). Businesses are able to develop more efficient products and services that are adapted to the requirements of customers as a result of this partnership. Because it encompasses promotional activities and communications that are centred on the customer, data-driven marketing is heavily dependent on value co-creation. Value co-creation that is driven by data gives a huge potential to optimize the wishes and preferences of consumers for the purpose of developing products and services that are suited to their specific needs. Marketers are able to discover consumer categories that have distinct demands and build products and services that are suited to the expectations of those segments through the use of customer and market analytics. Furthermore, marketing that is driven by data allows for increased consumer involvement, which in turn makes value co-creation potential (Hashem 2021).

## 7. CONCLUSION

The study showcases how data-driven marketing reshapes the comprehension of consumer patterns and helps businesses respond proactively to emerging trends. Leveraging extensive data volumes grants companies unprecedented insights into customer behaviours, enabling them to craft personalized and targeted marketing strategies. By transitioning from traditional to data-driven approaches, businesses can enhance campaign precision, foster deeper consumer engagement, and build loyalty.

Adopting data-driven marketing requires addressing challenges such as safeguarding data privacy, unifying disparate data sources, and refining analytical expertise. Despite these hurdles, the benefits far surpass the costs. Businesses equipped with advanced analytics systems are better positioned to anticipate market trends and adjust their strategies dynamically. As the digital marketplace evolves rapidly, the ability to analyse consumer behaviour in real time becomes a critical competitive edge. Integrating data-driven marketing into strategic planning is, therefore, not just beneficial—it's essential for success in today's landscape.

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