

Analysing the Impact of Digital Marketing Strategies on Consumer Buying Behaviour

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ABSTRACT

This study investigates the impact of digital marketing strategies on consumer buying behaviour, focusing on key factors such as website design, time-saving, security features, and consumer trust. A regression analysis was conducted using data from 150 respondents to examine how these factors influence consumer purchasing decisions in the digital marketplace. The results indicate that all the factors significantly affect consumer buying behaviour, with security features being the most influential predictor. The study demonstrates that website design, time-saving, and consumer trust also play critical roles in shaping consumer preferences and purchasing actions. The findings underscore the importance of integrating user-friendly website designs, effective time-saving features, and robust security measures into digital marketing strategies. This research provides valuable insights for businesses aiming to optimize their digital marketing efforts and enhance consumer engagement, ultimately leading to increased customer satisfaction and business growth.

Keywords: Digital Marketing, Consumer Buying Behaviour, Website Design, Time-Saving, Security Features, Consumer Trust, Regression Analysis, Online Shopping, Marketing Strategies

1. Introduction

In recent years, the rapid evolution of digital technology has transformed the global business landscape, reshaping how companies engage with their customers. Traditional marketing strategies, which once relied heavily on print media, television, and radio, are increasingly being replaced—or at least complemented—by digital marketing techniques that utilize the internet and digital communication channels. This shift has been driven by the exponential growth in internet users, the widespread adoption of smartphones, and the increasing dominance of social media platforms. As a result, digital marketing has emerged as a central component of modern marketing strategies, enabling brands to reach targeted audiences with unprecedented efficiency and precision.

Digital marketing strategies encompass a wide range of tools and techniques, including search engine optimization (SEO), pay-per-click (PPC) advertising, social media marketing, email campaigns, content marketing, affiliate marketing, and influencer partnerships. These methods not only allow marketers to engage with consumers on a global scale but also provide the ability to track, measure, and personalize marketing efforts in real time. This level of interactivity and responsiveness is a defining characteristic of digital marketing, distinguishing it from traditional forms and making it a powerful force in shaping consumer behaviour.

Consumer buying behaviour refers to the decision-making processes and actions of individuals in selecting, purchasing, using, and disposing of goods and services. It is influenced by a multitude of factors, including psychological, personal, social, and cultural elements. In the digital age, new variables such as online reviews, targeted advertisements, social media influence, and personalized content have begun to play a significant role in shaping these behaviours. Consumers today are more informed, connected, and empowered than ever before, often conducting thorough online research before making a purchase decision. Their behaviour is increasingly influenced by their interactions with brands across digital platforms.

This research paper aims to explore and analyze the impact of digital marketing strategies on consumer buying behaviour. The study will investigate how different digital tactics—such as social media marketing, influencer

endorsements, personalized email campaigns, and content-driven marketing—affect consumers' awareness, interest, evaluation, and purchase decisions. The research will also consider demographic variables, such as age, gender, income, and education level, to assess how different consumer segments respond to digital marketing efforts.

Furthermore, this paper will examine the role of trust and perceived value in digital environments, as these factors have been shown to significantly affect consumer behaviour in online contexts. The research will also address emerging trends, such as the growing use of artificial intelligence in marketing automation and the influence of user-generated content, which are reshaping the digital marketing landscape.

2. Literature Review

Kiani, N. (2023) In their research titled “Impact of Digital Marketing on Consumers' Buying Behaviours and Satisfaction,” the authors analyzed how digital marketing influences purchasing decisions and customer loyalty. The study revealed that consumers increasingly rely on online research and peer reviews to make informed buying choices, and that a personalized digital shopping experience enhances satisfaction. It concluded that digital marketing not only increases brand visibility and trust but also facilitates impulse purchases and strengthens brand loyalty through targeted communication and improved accessibility compared to traditional marketing methods.

Khosla, R. (2024) In their research titled “The Impact of Digital Marketing Strategies on Consumer Behaviour: A Case Study of an Indian E-commerce Company,” the authors analyzed how evolving digital tools and strategies influence consumer habits and brand interactions in India. The study highlighted that digital marketing has transformed buying behaviours, especially post-COVID-19, with consumers now relying more on reviews and online convenience than brand loyalty. It concluded that while digital marketing boosts consumer engagement, feedback, and reach through personalized and interactive platforms, its effectiveness is also shaped by challenges like budget limitations and rapidly changing trends.

Dr. Nagrani, K. and Kumar, S. P. (2021) In their research titled “A Study on Impact of Digital Marketing on Consumer Behaviour,” the authors examined how digital marketing has reshaped business-consumer communication and consumer decision-making. The study emphasized the role of the 5Ds—digital devices, platforms, media, data, and technology—in enhancing consumer access to products and services while enabling businesses to compete effectively across markets. It concluded that with growing internet penetration, government support, and a tech-savvy young population, digital marketing and e-commerce in India hold significant potential, provided businesses adapt their models to better understand and engage with consumers.

Basu, P and Naskar, M. (2023) In their research titled “The Impact of Digital Marketing on Consumer Behaviour: A Comprehensive Review,” the authors analyzed how digital marketing influences various stages of consumer behaviour, including decision-making, brand loyalty, trust, and purchase intention. The study emphasized the growing role of mobile devices, online reviews, social media, and content marketing in shaping consumer engagement and satisfaction. It concluded that digital marketing has transformed the way businesses connect with consumers, offering personalized and interactive experiences. However, it also highlighted the importance of addressing ethical and privacy concerns while leveraging digital tools to build lasting customer relationships and improve marketing effectiveness.

Li, J. (2024) In their research titled “Impact of Digital Marketing on Consumer Behaviour,” the authors examined how digital marketing shapes consumer attitudes, preferences, and purchasing decisions. Through literature review and data analysis, the study highlighted the role of social media, targeted advertising, and consumer reviews in influencing buying behaviour. It concluded that digital marketing fosters closer connections between consumers and brands, enhances trust, and accelerates the decision-making process. However, it also emphasized the need for ethical practices, high-quality content, and strategic competitor analysis to avoid negative impacts and maximize consumer engagement and business performance.

Kumawat, A. and Bhamboo, U. (2022) In their research titled “Digital Marketing and Consumer Buying Behaviour: An Empirical Study,” the authors analyzed how digital media platforms impact consumer purchasing habits. Descriptive analysis was employed to interpret secondary data from journals, websites, and surveys. The study concluded that digital marketing significantly influences the consumer decision-making process, with platforms such as Facebook, LinkedIn, and YouTube playing a vital role in shaping consumer preferences. It emphasized that online content boosts brand awareness and customer engagement, and that businesses must invest in market research and emerging tools like voice assistants to remain competitive in the evolving digital landscape.

Ramesh, A and Dr. Vinesh, (2023) The study titled “Examining the Effect of Digital Marketing on Consumer Buying Behaviour in Karnataka District” investigates how social media and digital platforms influence consumer purchasing habits. Using a descriptive research approach and random sampling, the findings reveal that most consumers actively seek product information and place significant trust in digital word-of-mouth. The ease of access to digital platforms has turned consumers into informed, research-driven buyers. Businesses that ensure secure, user-friendly websites and build trust can attract and retain more customers. The paper highlights the critical role of mobile internet and smartphones in driving India's booming e-commerce landscape.

Dr. Katoch, A. S. (2019) The study titled "Impact of Digital Marketing on Consumer Buying Behaviour" concludes that factors such as consumer awareness, purchasing power, and behaviour significantly influence both individual and family buying decisions. Notably, India's youth—comprising approximately 40 crore individuals aged 15–35—forms a major market segment. To succeed in a competitive digital economy, marketers must understand the psychology of this group and adapt their strategies accordingly. While digital marketing presents vast opportunities, it also introduces risks and challenges. The shift in consumer behaviour demands a transition from traditional customer-focused marketing to a more technologically driven, customer-centric approach for long-term success.

Gulve, S. (2021) The study titled "Impact of Digital Marketing on Consumer Buying Behaviour" explored how digital marketing influences purchasing decisions through a structured survey of 100 respondents. The findings indicate that the frequency of online shopping is not determined by monthly income, suggesting that consumers across various income brackets engage in digital purchasing. A majority of respondents expressed a preference for online shopping over traditional methods, pointing to the convenience and accessibility of digital platforms. Additionally, digital marketing channels such as social media and online advertisements have played a role in altering the purchase decisions of a notable portion of consumers, demonstrating the influence of digital engagement on consumer behaviour.

Oana DURALIA, O., (2024) The study titled "The Impact of Digital Marketing on Consumer Behaviour" explores how digital communication tools influence consumer purchasing decisions while recognizing the continued relevance of traditional marketing methods. Drawing from secondary data, it highlights the evolving nature of consumer behaviour in the digital age and the challenges marketers face in adapting to this transformation. The integration of mobile technology and digital strategies into organizational marketing plans enables consumers to easily compare products, assess features, and make informed purchasing decisions with greater efficiency. A key strength of digital marketing lies in fostering a sense of community and direct interaction between consumers and brands, enhancing trust and engagement. Furthermore, the user experience across all digital touchpoints plays a critical role in shaping consumer preferences and achieving broader marketing goals related to product offerings, pricing, and distribution.

Gopiani, M., Gupta, A., G. and Sabhani J., S. (2020) the study titled "A Study on Influence of Digital Marketing on Buying Behaviour of Youth" reveals that young consumers are increasingly drawn toward modern marketing channels such as websites and social media platforms due to their convenience and time-saving nature. Compared to traditional retail shopping, digital platforms are preferred for their ease of use, especially in terms of secure online payment systems. The presence of online discounts, offers, and promotional schemes further entices youth to engage in online shopping. Additional influencing factors include round-the-clock availability of products, access to detailed product information, and timely delivery services. Collectively, these elements highlight the pivotal role that digital marketing plays in shaping the purchasing behaviour of young consumers in India.

George, R. and Dr. Manuel, J. (2024) The study titled "An Analysis of the Impact of Digital Marketing on Consumer Purchasing Behaviour" explores the various factors influencing online consumer purchase behaviour, with a focus on psychological, social, and demographic elements. Conducted using both primary and secondary data sources, the research surveyed 100 college students and working professionals from Kottayam district. Findings indicate that perceived usefulness plays a significant role in shaping consumer purchase intentions and behaviour. The study also identifies a strong relationship between gender and shopping patterns, though internet usage frequency is consistent across genders. Respondents commonly use the internet for both e-commerce and entertainment, highlighting the growing influence of digital media. Digital word-of-mouth marketing emerges as a powerful tool, with consumers acting more like informed researchers. While digital marketing positively affects consumer psychology, the study notes that enhancing security could expand participation and trust. It concludes that digital platforms, particularly social media, hold great potential in influencing consumer behaviour in the evolving market landscape.

T. Salim, B. T., K. Issa, M. K. (2024) In their research titled "The Impact of Digital Marketing Management on Customer Buying Behaviour: Case Study of Soran City," the authors explored how digital marketing channels such as social media, search engines, and emails influence consumer purchasing decisions. The study found that digital marketing significantly impacts customer behaviour, especially among younger and more educated individuals in Soran. It emphasized factors like education level, income, and social media usage as key drivers of consumer behaviour. The research concluded that while digital marketing offers cost-effective ways for businesses to engage with customers, challenges such as over-advertising and timely delivery need to be addressed to enhance customer satisfaction and trust.

3. Objectives

1. To assess the impact of digital marketing on consumer buying behaviour.
2. To compare the factors affecting digital marketing and consumer buying behaviour.
3. To provide suggestions regarding the various problems faced during online buying of women buyers.

4. Hypothesis

H₀₁: There is no significant impact of digital marketing strategies on consumer buying behaviour.

H_{A1}: There is a significant impact of digital marketing strategies on consumer buying behaviour.

5. Statement of the Problem

In the digital age, marketing strategies have significantly shifted from traditional methods to online platforms, influencing how consumers make purchasing decisions. With increased internet accessibility, consumers now prioritize factors such as convenience, website design, time-saving features, and secure transactions when engaging in online shopping. However, despite the widespread use of digital marketing tools, businesses often lack clarity on how these factors specifically impact buying behaviour across different consumer segments. This becomes even more crucial when considering demographic variations and the unique challenges faced by specific groups, such as women buyers. Hence, there is a need to systematically assess the influence of digital marketing strategies, compare key influencing factors, and understand the demographic implications on consumer behaviour to provide actionable insights for businesses to optimize their digital marketing approaches.

6. Research Methodology

The present study adopts a descriptive and quantitative research design to analyze the impact of digital marketing strategies on consumer buying behaviour. Descriptive research is employed to gain an in-depth understanding of current consumer perceptions and behaviours in response to various digital marketing elements such as convenience, website features, time-saving benefits, and online security. This approach helps explore the attitudes and preferences of consumers, particularly in the context of digital engagement.

A quantitative methodology has been utilized to gather empirical data through a structured questionnaire, targeting a representative sample of consumers. The data focuses on key variables such as digital marketing exposure, online purchasing behaviour, and demographic characteristics. The questionnaire is designed to measure the influence of specific digital marketing factors on consumer decisions.

7. Data Collection Methodology

Primary data: Information was collected through structured questionnaires administered to both working and non-working women who engage in online shopping. The questionnaire was designed to capture data related to the respondents' demographic profile, digital marketing exposure, and online buying behaviour. Questions focused on key influencing factors such as convenience, website features, time-saving, and online security. A total of 150 questionnaires were distributed, and the responses were compiled for analysis.

Secondary data refers to information gathered from previous research studies relevant to the current investigation. The study draws upon a wide range of secondary sources including academic journals, books, research articles, and reports from recognized institutions. The internet served as a vital tool in sourcing updated and reliable data from authentic databases and research repositories to support the study's framework and validate primary findings.

8. Sampling Design

In conducting this study, it is not feasible or cost-effective to collect data from the entire population. Therefore, a representative sample of participants was selected from the relevant demographic. The study focuses on analyzing the impact of digital marketing on consumer buying behaviour in Rajasthan, particularly focusing on online shoppers who purchase fashion items.

The cities of Jaipur, Jodhpur, Kota, and Ajmer in Rajasthan have been selected as the geographical scope for this study. These cities represent a broad spectrum of consumers and are home to significant online shopping activity.

To ensure the sample represents the target population, a **Probability Sampling Method** known as **Simple Random Sampling** was used. This method was chosen to ensure that each participant has an equal chance of being selected, thereby minimizing bias and ensuring that the sample is representative of the population.

Table 1: Sampling Techniques

1.	Sampling Method	Simple Random Sampling Method
2.	Sample Size	150 consumers
3.	Area of survey	Jaipur, Jodhpur, Kota and Ajmer city

For this study, the sampling method employed is Simple Random Sampling Method, ensuring that consumers from different cities in Rajasthan has an equal opportunity to be included in the sample. The sample size

comprises 150 consumers, providing a robust dataset for analysis. The survey will be conducted in key urban centers including Jaipur, Jodhpur, Kota, and Ajmer City, covering a diverse geographical spread within the state. By focusing on these cities, the research aims to capture variations in digital marketing exposure and buying behaviour across different urban contexts in Rajasthan. This sampling approach is designed to ensure the representation and inclusivity of diverse demographic groups, thereby enhancing the reliability and generalizability of the study findings. Following is the categories in which the sample has been divided:

The study will focus on residents of selected cities in Rajasthan, such as Jaipur, Jodhpur, Kota, and Ajmer, who represent the broader demographic of consumers within the region. This encompasses individuals of varying ages, socio-economic statuses, educational backgrounds, and purchasing habits, who engage with digital marketing channels and make online purchasing decisions.

9. Empirical Analysis

The empirical analysis evaluates the relationship between digital marketing strategies and consumer buying behaviour using statistical techniques such as multiple linear regression. This section examines the impact of Website Design (WD), Time Saving (TS), Security Features (SF), and Consumer Trust (CF) on Consumer Buying Behaviour (CBB). The findings provide insights into the significance and strength of these relationships, helping to understand how different digital marketing factors influence consumer purchasing decisions. The analysis identifies which digital marketing strategies have the most substantial impact on consumer behaviour, providing valuable implications for businesses looking to optimize their digital marketing efforts.

9.1 Descriptive Analysis

Table 2: Descriptive Study

	N	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
CBB	150	4.0433	.62767	-2.594	.148	6.438	.295
WD	150	4.1444	.57587	-1.415	.148	1.808	.295
TS	150	4.1136	.54103	-2.040	.148	5.404	.295
SF	150	4.1111	.57735	-2.193	.148	5.348	.295
CF	150	4.1935	.50167	-2.123	.148	5.639	.295
Valid N (listwise)	150						

Source: Output of SPSS 22

The descriptive statistics for the study variables—Consumer Buying Behaviour (CBB), Website Design (WD), Time Saving (TS), Security Features (SF), and Consumer Trust (CF)—reveal several key insights. The mean for **Consumer Buying Behaviour (CBB)** is 4.04 (SD = 0.63), with a skewness of -2.59 and kurtosis of 6.44, indicating a strong positive response from most participants regarding the impact of digital marketing on their buying behaviour. **Website Design (WD)** has a mean of 4.14 (SD = 0.58), with a skewness of -1.42 and kurtosis of 1.81, suggesting that while respondents generally find website design important, there is more variation in their opinions. **Time Saving (TS)** shows a mean of 4.11 (SD = 0.54), with a skewness of -2.04 and kurtosis of 5.40, demonstrating a strong consensus on the importance of time-saving features in online shopping. **Security Features (SF)** also has a mean of 4.11 (SD = 0.58), with a skewness of -2.19 and kurtosis of 5.35, indicating that most participants view security features as crucial. Lastly, **Consumer Trust (CF)** has the highest mean of 4.19 (SD = 0.50), with a skewness of -2.12 and kurtosis of 5.64, showing a high level of agreement among respondents on the importance of trust in digital marketing. Overall, the results suggest that factors such as website design, time-saving, security, and trust are highly valued by consumers when it comes to digital marketing strategies.

9.2 Hypothesis Testing

H₀: There is no significant impact of digital marketing strategies on consumer buying behaviour.

H_A: There is a significant impact of digital marketing strategies on consumer buying behaviour.

9.2.1 Regression Analysis

Table 1: Results of Multiple Linear Regression Analysis Predicting Consumer Buying Behaviour (CBB) from Website Design (WD), Time Saving (TS), Security Features (SF), and Consumer Trust (CF)

Predictor	Unstandardized Coefficients (B)	Standardized Coefficients (β)	Std. Error	t	p-value
Constant	-0.895	—	0.087	-10.247	0.000
Website Design (WD)	0.166	0.152	0.027	6.235	0.000

Time Saving (TS)	0.23	0.198	0.031	7.31	0.000
Security Features (SF)	0.565	0.519	0.034	16.588	0.000
Consumer Trust (CF)	0.234	0.187	0.035	6.753	0.000
Note. Dependent Variable: Consumer Buying Behaviour (CBB). $R^2 = 0.934$, Adjusted $R^2 = 0.933$, $F(4, 146) = 937.756$, $p = .000$. Durbin-Watson = 2.232.					

The results of the multiple linear regression analysis predicting consumer buying behaviour (CBB) from the predictors website design (WD), time saving (TS), security features (SF), and consumer trust (CF) are presented in Table 1. The model was statistically significant, $F(4, 146) = 937.756$, $p < .001$, explaining 93.4% of the variance in consumer buying behaviour ($R^2 = 0.934$, Adjusted $R^2 = 0.933$).

Among the predictors, security features (SF) had the strongest positive impact on CBB, with an unstandardized coefficient of 0.565 ($\beta = 0.519$), $t = 16.588$, $p < .001$. This indicates that an increase in security features is associated with a substantial increase in consumer buying behaviour. Time saving (TS) and website design (WD) also had significant positive effects on CBB, with coefficients of 0.230 ($\beta = 0.198$), $t = 7.310$, $p < .001$, and 0.166 ($\beta = 0.152$), $t = 6.235$, $p < .001$, respectively. Lastly, consumer trust (CF) showed a positive relationship with CBB, with a coefficient of 0.234 ($\beta = 0.187$), $t = 6.753$, $p < .001$. All predictors had statistically significant effects, suggesting that they are important factors in influencing consumer buying behaviour.

The Durbin-Watson statistic of 2.232 indicates that there is no significant autocorrelation in the residuals, confirming the validity of the regression model.

The regression equation based on the results of the analysis is:

$$CBB = -0.895 + 0.166(WD) + 0.230(TS) + 0.565(SF) + 0.234(CF)$$

Where:

- CBB = Consumer Buying Behaviour
- WD = Website Design
- TS = Time Saving
- SF = Security Features
- CF = Consumer Trust

This equation reflects the impact of each predictor on consumer buying behaviour (CBB), with all predictors being statistically significant.

According to the analysis, **Security Features (SF)** has the most significant impact on **Consumer Buying Behaviour (CBB)**. This is indicated by the highest unstandardized coefficient ($B = 0.565$) and standardized coefficient ($\beta = 0.519$), along with a very high t-value (16.588) and a p-value of 0.000, showing that it is a highly significant predictor of consumer buying behaviour.

In comparison, **Website Design (WD)**, **Time Saving (TS)**, and **Consumer Trust (CF)** also positively influence consumer buying behaviour, but their impact is less pronounced than security features.

10. Conclusion

This study aimed to analyze the impact of digital marketing strategies on consumer buying behaviour, focusing on factors such as website design, time-saving, security features, and consumer trust. The findings reveal that all the factors have a significant positive impact on consumer buying behaviour, with security features emerging as the most influential predictor. The regression analysis shows that each factor, particularly security features, contributes notably to shaping consumer purchasing decisions. The high values of R^2 (0.934) and the significance of the model ($p = 0.000$) demonstrate that the chosen predictors collectively explain a large portion of the variance in consumer buying behaviour.

The results highlight the importance of integrating robust security features, an intuitive website design, time-saving mechanisms, and trust-building strategies into digital marketing efforts. As consumers become increasingly reliant on online shopping, businesses must ensure their digital platforms offer not only a seamless experience but also address concerns regarding security and convenience. These insights can help companies in designing more effective digital marketing strategies, ultimately enhancing consumer satisfaction and driving business growth.

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