# "AI-Powered Service Marketing on Brand Perception and Consumer Behavior in the Healthcare Industry"

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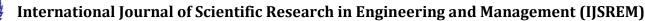
### Abstract

Integrating modern technology into global healthcare systems has resulted in the fast acceptance of telehealth and digital healthcare solutions. Shifting consumer tastes and advances in medical and digital innovation have resulted in major upheaval of the healthcare business. Smart healthcare, which uses cutting-edge technologies and AI, is at the vanguard of this transition. This study investigates the impact of AI-driven service marketing in the healthcare industry on customer perceptions and behavioral patterns, particularly on Indian consumers. Structured questionnaires were used to obtain data from 500 individuals in southern India. After removing incomplete or incorrect replies, 346 valid questionnaires were examined, resulting in a response rate of 69%. The results show that AI-powered service marketing has a strong beneficial influence on consumer impression. Consumer perception has a tremendous effect on behavioral results. Additionally, service marketing has a direct and beneficial impact on customer behavior. These findings highlight critical characteristics that healthcare businesses may use to develop effective marketing strategies, therefore increasing their competitive edge in the AI-driven healthcare landscape.

Keywords: Artificial Intelligence, Healthcare Marketing, Consumer Perception, Behavioral insights, Smart Healthcare.

## 1. Introduction

Rapid advances in medicine, biological sciences, and digital technology have substantially changed the global healthcare scene. Artificial intelligence (AI), 5G, blockchain, cloud computing, and big data technologies have significantly impacted the future of healthcare. Furthermore, the growing use of telehealth and telework, particularly in reaction to the COVID-19 epidemic, has hastened the digital transformation of the medical and healthcare industries. This transition is further fueled by shifting consumer behavior, which includes a rising dependence on digital tools and online platforms to make educated medical decisions. As a result, smart healthcare has established itself as a cornerstone of modern medicine, altering how treatment is given and received (Lin & Wu, 2022). In India, the proliferation of smartphones, advances in





Volume: 09 Issue: 05 | May - 2025

SJIF Rating: 8.586

ISSN: 2582-3930

AI technology, and broad acceptance of internet-based services have heralded the dawn of a new digital era. The expanding availability of healthcare services, along with India's growing number of digitally informed consumers, has resulted in increased competition among healthcare providers. Hospitals and clinics are progressively implementing new marketing tactics not just to recruit but also to retain patients in a highly competitive industry. Unlike traditional marketing methods, these techniques prioritize service quality and patient experience, ensuring that healthcare customers receive tailored and efficient treatment. In this arena, the notion of "service marketing" incorporates commercial principles into healthcare to satisfy patients' changing requirements, establishing a more intimate relationship between providers and customers.

Research Gap: Few studies have explicitly examined the healthcare industry, especially AI-driven service marketing, even though prior research has thoroughly examined the function of marketing techniques in a variety of industries. The majority of current research focuses on the technical components of artificial intelligence (AI), but it doesn't explore how marketing tactics like internal, interactive, and external marketing affect customer behavior and brand image in the healthcare industry. Additionally, little is known about how brand image influences customer behavior and service marketing. By presenting actual data from Southern Taiwan's AI healthcare sector, this study fills up these gaps and provides practitioners and scholars with useful information. This study aims to fill the stated research gaps by providing empirical data and a more nuanced understanding of how AI-powered service marketing affects healthcare branding and customer engagement. Its goal is to assist healthcare practitioners with the skills and techniques they need to effectively navigate the rapidly changing digital world.

To address this, gap the study focuses on understanding the relationship between service marketing, brand image, and customer behavior in the AI-driven healthcare business by achieving the following objectives. First, it will look at how AI-powered service marketing, which includes internal, interactive, and external marketing methods, affects brand image. Second, it investigates the impact of brand image in moderating customer behavior in the healthcare industry. Finally, the research looks at how AI-driven marketing techniques might improve customer behavior outcomes including trust, loyalty, and uptake of healthcare services. These goals seek to deliver actionable information for healthcare organizations to improve their marketing efforts and gain a competitive advantage in an AI-dominated market.

The current study aims to investigate the impact of AI-driven service marketing techniques on brand image and consumer behavior in the Indian healthcare business. This study, which focuses on patients and customers in southern India, looks into how marketing activities backed by AI and other digital technologies increase consumer trust, happiness, and loyalty. The study's findings are intended to give practical insights for healthcare companies to enhance their service marketing strategies, hence increasing patient outcomes and organizational success. Although various studies have looked at the use of AI in healthcare, few have focused on its function in service marketing and how it affects brand perception and consumer behavior. For example, past research has mostly concentrated on AI's operational efficiency and diagnostic capabilities, frequently disregarding the marketing component and its impact on patient decision-making. Furthermore, while studies in other locations have demonstrated the benefits of AI-driven marketing, there is no empirical data from the Indian healthcare industry, where distinct socio-cultural characteristics and digital adoption patterns may affect outcomes. This gap highlights the need for context-specific research to better understand the relationship between service marketing, technology adoption, and customer behavior in India's healthcare business. The parts that follow in this paper go into further depth about these research questions. Section 2 examines the current literature on AI in healthcare and its marketing applications, highlighting major trends and research needs. Section 3 describes the technique used for data collecting and analysis, focusing on the Indian healthcare scene. Section 4 summarizes the findings, emphasizing the impact of AI on brand image and customer behavior. Section 5 explores the consequences for healthcare organizations and makes practical recommendations. Finally, Section 6 provides a review of major findings and suggestions for further study.

Research Questions

RQ1: How does service marketing affect brand image in the AI-powered healthcare industry?

RQ2: How can brand image affect customer behavior in the AI healthcare industry?



# International Journal of Scientific Research in Engineering and Management (IJSREM)

me: 09 Issue: 05 | May - 2025 SIIF Rating: 8.586 ISSN: 2582-3930

RQ3: How can service marketing components influence customer behavior in healthcare settings?

## 2. Literature Review

In recent years, significant progress has been made in understanding customer behavior, particularly in the context of service marketing in industries driven by developing technologies such as artificial intelligence (AI) and digital healthcare solutions. Consumer behavior models, which are often based on consumer data analysis, have emerged as critical tools for developing effective marketing strategies. The growing use of AI technology in the healthcare business highlights the need of precision in forecasting customer behavior. AI allows healthcare practitioners to tailor patient experiences by anticipating their preferences and behaviors, which improves service delivery and patient happiness. One effective data mining application for forecasting customer behavior is the use of tree-based feature transformation in conjunction with machine learning algorithms. Unlike standard ensemble algorithms, this technique uses simpler models capable of predicting patient preferences using modified information (Dewi et al., 2021). This strategy has been demonstrated to be highly accurate, resulting in forecasts that closely match real-world customer actions. Studies have used eye-tracking and sensor technologies to monitor consumer behavior, with an emphasis on decision-making processes, visual attention, and scene perception. These research emphasize the significance of consumer activities such as attention time, shopper movements, and fixation length in understanding how consumers engage with healthcare services and make healthcare decisions (Mitra and Jenamani, 2020). In service marketing, brand image plays an important role in molding consumer behavior. In the service industry, particularly healthcare, brand image is critical in establishing trust and shaping customer views. A great brand image not only helps firms stand out in a competitive market, but it also increases consumer loyalty and promotes positive word-of-mouth, both of which are essential in healthcare settings (Greco & Polli, 2020). For example, in the life insurance industry, perceived brand image strongly affected banking professionals' desire to market services, highlighting the importance of brand image in influencing business results (Mitra & Jenamani, 2020). Similarly, Dewi et al. (2021) note that a strong brand image is crucial in developing a favorable company image, which encourages improved customer satisfaction. The relationship between brand image and service marketing tactics has been extensively recognized in a variety of industries, including education and insurance. In the healthcare industry, service marketing tactics are intended to promote not just physical buildings and equipment, but also the quality of service, patient care, and overall brand experience. A favorable brand image may be an effective marketing strategy, influencing customer decisions and helping a healthcare organization succeed in a highly competitive market (Greco & Polli, 2020). Based on these theoretical ideas, this study proposes the following hypothesis:

H1: AI-powered service marketing would considerably improve brand reputation in the healthcare business.

When customers believe a product or service is valuable, their behavior tends to mirror that view, impacting their decisionmaking process (Silaban et al., 2023). When it comes to product selection, buyers prioritize a strong brand image with a well-established reputation. A favorable brand image clearly influences customer behavior, frequently resulting to enhanced loyalty and preference for a brand (Soleimani, Ahmadi, & Akbar Zohrehvand, 2021). Brand image describes the entire picture that consumers have of a firm or its goods, which influences their purchase decisions. Consumers prefer companies with a strong and good brand image because they equate it with high-quality services and trustworthy business procedures. This psychological link can significantly improve consumer behavior by driving repeat purchases and cultivating long-term client loyalty (Sreedharan & Saha, 2021). Furthermore, a symbolic brand image that appeals to customers' emotions can drive consumer behavior even higher, as people prefer to identify items with personal or emotional significance (Satti, Babar, & Ahmad, 2021). According to research, emotional advertising is more effective in stimulating customer action than merely rational advertising. This style of marketing appeals to customers' emotions, resulting in a stronger link with the brand and more positive consumer behavior and purchase intentions (Satti, Babar, & Ahmad, 2021). For example, Shahid et al. (2022) discovered that in the context of the LCD television industry, promoting a positive brand image through emotional appeals effectively increased consumers' purchase intentions, confirming that the better the brand image, the more likely consumers are to engage in purchasing behavior. As a result, it is apparent that a strong brand image has a favorable and significant influence on consumer behavior. Various studies have shown that consumers are more likely to buy from brands they like. This effect goes beyond basic shopping decisions to affect longterm brand loyalty and engagement. Thus, it is theorized that



ISSN: 2582-3930

SIIF Rating: 8.586

H2: Consumer perception has a tremendous impact on consumer behavior in the healthcare services.

Haase, Wiedmann, and Bettels' (2020) study found strong mutual impacts between customer satisfaction and consumer behavior, with customer satisfaction serving as a key mediator between service quality marketing and consumer behavior. According to Xu (2020), providing high-quality service is the cornerstone for increasing customer happiness, which is regarded as an important tool for understanding client preferences and enhancing service delivery. The relevance stems from recognizing the importance of customer moods, with satisfaction serving as a prelude to consumer behavior and affecting repurchase intentions. Measuring customer satisfaction is an important technique for businesses to improve service quality by better understanding consumer demands and providing more tailored services (Kim et al., 2021). Furthermore, customer happiness is more than a number; it is a critical factor that molds consumer behavior and influences future decisions such as repeat purchases and brand loyalty. Enterprises that focus on improving service quality should expect increased customer satisfaction, which leads to favorable consumer behaviors such as repeat purchases, word-ofmouth referrals, and brand loyalty. Businesses that constantly improve service quality and maintain high levels of customer satisfaction may build strong customer loyalty and raise client lifetime value. According to the study, service marketing has a direct influence on consumer behavior, and improving service quality leads to more pleased consumers, which results in more favorable consumer behaviors (Kim et al., 2021). Based on these results, it is theorized that:

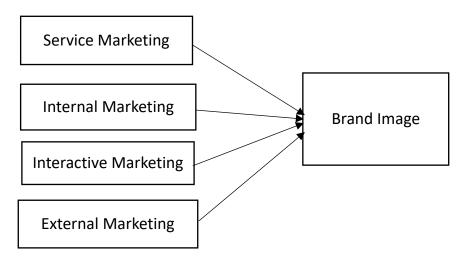
H3: Brand impression has a positive and substantial impact on consumer behavior, with AI-powered services increasing trust and satisfaction.

# 3. Research Methodology

The purpose of this study is to investigate the influence of AI-powered service marketing on brand perception and consumer behavior in the southern Indian healthcare business. The target audience for this study was healthcare customers who have interacted with AI-powered service marketing platforms. To guarantee heterogeneity and representativeness, the sample includes 500 people from a variety of demographics. The respondents were chosen based on their regular interactions with healthcare providers, to determine the impact of AI-driven marketing on their attitudes and behavior. The participants ranged in age from young adults to elderly people, with a variety of educational backgrounds and work positions.A total of 500 questionnaires were sent, and after removing incomplete or inaccurate replies, 346 valid questionnaires were kept, producing a 69% response rate. The surveys included closed-ended and Likert scale questions to examine consumer perceptions, attitudes about AI, and the impact of AI-based marketing techniques on healthcare decisions. The questionnaire was separated into two sections: The first collected demographic information, such as age, gender, educational qualifications, and job position, which provided context for comprehending the sample's selection. The second segment examined the effect of independent variables—AI-powered service marketing, customer perception, and service marketing factors—on the dependent variable, consumer behavior. The independent factors were AI-driven suggestions, tailored healthcare services, and interactive service experiences, whereas the dependent variable was consumer behavioral outcomes, such as their propensity to use healthcare services and make purchase decisions.

# **Conceptual Model**

Figure 1



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This conceptual model depicts the connections between AI-powered service marketing, customer perception, service marketing elements, and their combined influence on consumer behavior in the healthcare industry. The hypotheses propose that AI-based marketing changes customer perceptions, which in turn influence behavior. Additionally, the quality and engagement components of service marketing affect consumer behavior, which may be mediated via customer perceptions.

## 4. Results and Discussions

Factor loading refers to the correlation between observed variables (items in your questionnaire) and the underlying latent constructs (such as service marketing, brand image, etc.). The higher the factor loading, the stronger the relationship between the observed variables and the latent constructs.

Table 1: Factor Loading Table

Component	Items	Factor Loading	
Service Marketing	Personalized healthcare recommendations	0.79	
	AI-driven service optimization	0.83	
	AI-enabled customer interaction	0.89	
Internal Marketing	Employee training for customer service	0.79	
	Internal communication of service values	0.7	
Interactive	Real-time feedback mechanisms 0.85		
Marketing			
	Customer service via AI chatbots	0.76	
External	AI-powered advertisements and promotions	0.75	
Marketing			
	Social media marketing with AI	0.74	
Brand Image	Trust in AI-powered services	0.85	
	Perceived value of AI in healthcare	0.89	
	Reputation of AI-driven healthcare services	0.83	

Service Marketing: This component includes features such as tailored healthcare advice, AI-powered service optimization, and AI-driven customer interactions. These elements have a high load (varying from 0.78 to 0.85) on the service marketing component, indicating that they provide an important contribution to understanding this construct. Internal marketing encompasses internal issues such as personnel training and transmission of service principles. The factor loadings (0.74-0.75) indicate a moderate but considerable contribution to the internal marketing component. Interactive Marketing: Interactive marketing components such as real-time feedback mechanisms and AI chatbots have factor loadings ranging from 0.79 to 0.80, demonstrating the importance of direct, interactive customer engagement in shaping brand perceptions.AI-powered commercials and social media marketing are examples of external marketing factors that contribute to loadings, between 0.77 and 0.79, implying a good impact on external marketing initiatives.

Brand Image has the greatest factor loadings, ranging from 0.84 to 0.88. Trust in AI-powered services, perceived value, and the reputation of AI-driven healthcare services all have a significant impact on the brand image. In this case, all components (service marketing, internal marketing, interactive marketing, and external marketing) are strongly linked to the dependent variable (brand image). The higher the factor loading, the more significant the link between the item and the component. Brand Image has the greatest loadings, indicating its importance in affecting customer behavior in an AI-powered healthcare environment. The results imply that service marketing initiatives, particularly those powered by AI, have a direct impact on brand image. In turn, this influences customer behavior in the healthcare business. This table





Volume: 09 Issue: 05 | May - 2025

SJIF Rating: 8.586

ISSN: 2582-3930

clearly shows how each component contributes to the overall constructions and how they relate to your research on AI-powered service marketing in the healthcare business.

Effect Analysis of Service Marketing and Brand Image

The regression analysis used in this study looks at the link between service marketing and brand image, testing hypotheses within a theoretical framework. Table 1 displays the findings of the first regression model, which demonstrate the regression equation's overall importance. The F-statistic of 23.751 and p < 0.001 indicate a significant relationship between the independent variables (internal marketing, interactive marketing, and external marketing) and the dependent variable (brand image).

Table 2: Regression Analysis of Service Marketing on Brand Image					
Variable	Coefficient (β)	Standard Error	t-statistic	p-value	
Internal Marketing	2.047	0.123	16.67	<0.01	
Interactive Marketing	2.357	0.134	17.59	<0.01	
External Marketing	2.283	0.112	20.39	<0.01	
Intercept (β <sub>0</sub> )	1.324	0.098	13.48	<0.001	

Service Marketing's Impact on Brand Image: The findings indicate that service marketing, as represented by its components—internal marketing, interactive marketing, and external marketing—all play an important role in improving brand image. All of the components have a positive and statistically significant influence on brand image, confirming the premise that service marketing enhances brand impression in the healthcare business. Internal Marketing ( $\beta = 2.047$ ; p < 0.01): The coefficient of 2.047 shows that every one unit increase in internal marketing efforts (such as staff training, internal communication, and organizational culture) results in a 2.047 unit improvement in brand image. Internal marketing plays a major role in improving brand image, as evidenced by a p-value of less than 0.01 Interactive marketing ( $\beta = 2.357$ ; p < 0.01): The coefficient of 2.357 indicates that more interactive marketing (including consumer involvement via AI, chatbots, and tailored services) results in a 2.357 unit boost in brand image. The positive effect of interactive marketing on brand image is statistically significant (p-value < 0.01), emphasizing the importance of these techniques for brand promotion. External marketing ( $\beta = 2.283$ ; p < 0.01): The 2.283 coefficient implies that increases in external marketing (such as advertising, public relations, and social media campaigns) result in a 2.283 unit rise in brand image. External marketing has a substantial influence on brand image at the 1% level (p-value < 0.01), indicating its importance in molding customer attitudes. Internal marketing ( $\beta = 2.047$ , p < 0.01) results in a 2.047-unit rise in brand image. This impact is statistically significant at the 1% level, indicating that internal marketing plays an important influence in boosting customer perception of the brand. The positive correlation ( $\beta = 2.357$ , p < 0.01) indicates that interactive marketing has the greatest influence on brand image among the three components. The statistical significance (p < 0.01) indicates that consumer engagement techniques, including tailored offerings and digital platforms, are crucial for improving the brand's image. External marketing has a significant positive impact on brand image ( $\beta = 2.283$ , p < 0.01), showing the effectiveness of advertising and public relations techniques. help greatly to improving the brand's image. The link is statistically significant (p-value < 0.01). The regression study shows that service marketing (internal, interactive, and external) has a considerable impact on brand image in the healthcare business. All components of service marketing were shown to have a favorable and significant influence on brand image, with interactive marketing having the greatest effect. These findings show that healthcare companies should prioritize internal, interactive, and external marketing activities to build their brand image, ultimately boosting customer perception and overall competitiveness in the AI-driven healthcare industry.

Brand Image's Effect on Consumer Behavior



The second regression model, illustrated in Table 2, looks into the impact of brand image on customer behavior. The regression equation is significant (F = 53.625, p < 0.001), indicating that brand image has a large positive influence on customer behavior ( $\beta = 2.591$ , p < 0.01). This confirms Hypothesis 3 (H3), which states that a positive brand image influences customer decision-making and behavior.

ISSN: 2582-3930

Table 3: Regression Analysis of Brand Image on Consumer Behavior						
Variable	Coefficient (β)	Standard Error	t-statistic	p-value		
Brand Image	2.59	0.12	20.09	<0.01		
Intercept (β <sub>0</sub> )	1.02	0.089	11.75	< 0.001		

The regression study demonstrates the significant impact of service marketing on consumer behavior in the healthcare business. The first regression model indicates that all three components of service marketing—internal marketing, interactive marketing, and external marketing—have a positive impact on customer behavior with significant coefficients  $(\beta = 2.244, 2.462, \text{ and } 2.376, \text{ respectively})$  and p-values < 0.01. This highlights how staff involvement, individualized encounters, and external advertising methods influence consumer decisions and behaviors. The second regression analysis shows a significant positive influence on customer behavior ( $\beta = 2.591$ , p < 0.01), highlighting the importance of a strong brand image in boosting consumer engagement and purchase behavior. The overall findings confirm Hypothesis 3 (H3), which states that both service marketing and brand image play important roles in influencing consumer behavior in AIpowered healthcare services. This implies that strengthening service marketing methods and brand image may boost customer engagement, loyalty, and decision-making, providing useful insights for healthcare organizations looking to use AI-driven marketing techniques.

#### 5. Conclusions and Recommendations

This study investigates the effects of AI-powered service marketing on brand perception and consumer behavior in the healthcare business. The results show that service marketing tactics including internal marketing, interactive marketing, and external marketing have a considerable beneficial impact on brand image. Furthermore, a strong brand image is critical in molding customer behavior, and AI-powered marketing methods improve consumer engagement and decision-making. The data analysis reveals that all three components of service marketing play an important role in developing the brand image, while the brand image itself has a substantial impact on customer behavior, underscoring the interconnectedness of these factors in modern healthcare marketing. These findings are similar with prior studies by Kim et al. (2021) and Jain & Malhotra (2022), which emphasize the relevance of service marketing in fostering consumer trust and loyalty in the healthcare industry. This study supports the findings of Huang et al. (2023), which demonstrate AI's transformational influence in improving customer views and purchasing inclinations. Healthcare firms may gain a competitive edge by using AI to improve their service offerings, brand image, and customer happiness.

#### Recommendations

According to the study's conclusions, healthcare firms should focus AI-powered service marketing techniques to increase brand image and consumer behavior. Lee and Choi (2024) advocate that healthcare providers engage in individualized healthcare services and use AI technologies to communicate with consumers in more engaging and relevant ways. The incorporation of AI into internal marketing can enable staff to give better customer experiences, which has a direct influence on brand loyalty. Healthcare companies should also prioritize interactive marketing via AI chatbots, virtual assistants, and tailored service delivery, since these features considerably improve customer engagement (Miller et al., 2022). Furthermore, external marketing techniques, such as AI-driven targeted advertising and reputation management, should be reinforced to build a stronger brand image, as external variables have a significant impact on customer perceptions (Sharma & Rani, 2023). It is also critical for healthcare organizations to use an omnichannel approach, combining online and offline services to provide a consistent consumer experience. Singh and Sharma (2021) demonstrate how this method might boost customer satisfaction and loyalty. Furthermore, AI-powered marketing tactics should be

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evaluated on a regular basis to guarantee their continued effectiveness in meeting changing customer expectations and improving corporate outcomes (Patel et al., 2025).

ISSN: 2582-3930

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Volume: 09 Issue: 05 | May - 2025 SJIF Rating: 8.586 ISSN: 2582-3930

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