Digital Transformation and Its Impact on Services Marketing

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DOI: https://doi.org/10.70333/ijeks-04-09-007
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Abstract

Digital transformation has significantly changed the way services are delivered and marketed in the modern business environment. The adoption of digital technologies such as artificial intelligence, big data, cloud computing, mobile applications, and social media has transformed traditional services marketing into digital services marketing. This study examines the impact of digital transformation on services marketing performance. The study focuses on the relationship between digital transformation, customer experience, service quality, customer satisfaction, and services marketing performance. The study is based on primary data collected from 150 respondents using a structured questionnaire in the service sector. The collected data were analyzed using statistical tools such as reliability analysis, descriptive statistics, correlation analysis, and regression analysis. The results of the study show that digital transformation has a significant positive impact on customer experience and service quality. Customer experience and service quality significantly influence customer satisfaction, and customer satisfaction significantly influences services marketing performance. The study also found that digital transformation has a direct positive impact on marketing performance. The study concludes that digital transformation plays a crucial role in improving services marketing performance through customer experience, service quality, and customer satisfaction. The study suggests that service organizations should adopt digital technologies and digital marketing strategies to improve marketing performance and customer satisfaction. The findings of the study will help service organizations develop effective digital marketing strategies in the service sector.

Keywords: *Digital Transformation, Services Marketing, Customer Experience, Service Quality, Customer Satisfaction, Marketing Performance.*

1. Introduction

Digital transformation has become a fundamental driver of change in modern business environments, particularly in the service sector where technology plays a critical role in value creation and customer engagement. Digital transformation refers to the integration of digital technologies such as artificial intelligence, big data, cloud computing, social media, and automation into business processes to improve organizational performance, customer experience, and marketing efficiency **(Caliskan et al., 2021; Sinha & Patil, 2023)**. In the service sector, digital transformation has significantly changed the way organizations interact with customers, deliver services, and implement marketing strategies.

Services marketing has evolved from traditional marketing methods to digital platforms, enabling organizations to reach customers through online channels, mobile applications, social media, and digital service systems. Digital technologies help service organizations personalize services, improve service quality, and enhance customer satisfaction through faster and more efficient service delivery **(Gomes et al., 2025).** Furthermore, digital marketing tools such as customer relationship management (CRM) systems, marketing automation, and data analytics enable organizations to understand customer behavior and develop effective marketing strategies **(Yuan & Wang, 2025).**

Digital transformation also plays a significant role in improving marketing performance by enhancing customer engagement, brand communication, and service innovation. The adoption of digital technologies allows service firms to create competitive advantages and improve overall business performance **(Amin et al., 2025).** Moreover, digital transformation supports organizations in developing dynamic capabilities, improving operational efficiency, and responding quickly to market changes **(Froehlich et al., 2025).** Therefore, digital transformation is not only a technological change but also a strategic transformation that influences services marketing performance and customer experience.

Despite the growing importance of digital transformation, many service organizations still face challenges in adopting digital technologies and integrating them into their marketing strategies. Issues such as lack of digital infrastructure, employee resistance, data security concerns, and high implementation costs affect the adoption of digital transformation in services marketing **(Madouri, 2025).** Therefore, it is necessary to study the impact of digital transformation on services marketing to understand how digital technologies influence customer experience, service quality, customer satisfaction, and marketing performance.

Thus, this study aims to examine the impact of digital transformation on services marketing and to analyze how digital technologies influence marketing performance in the service sector.
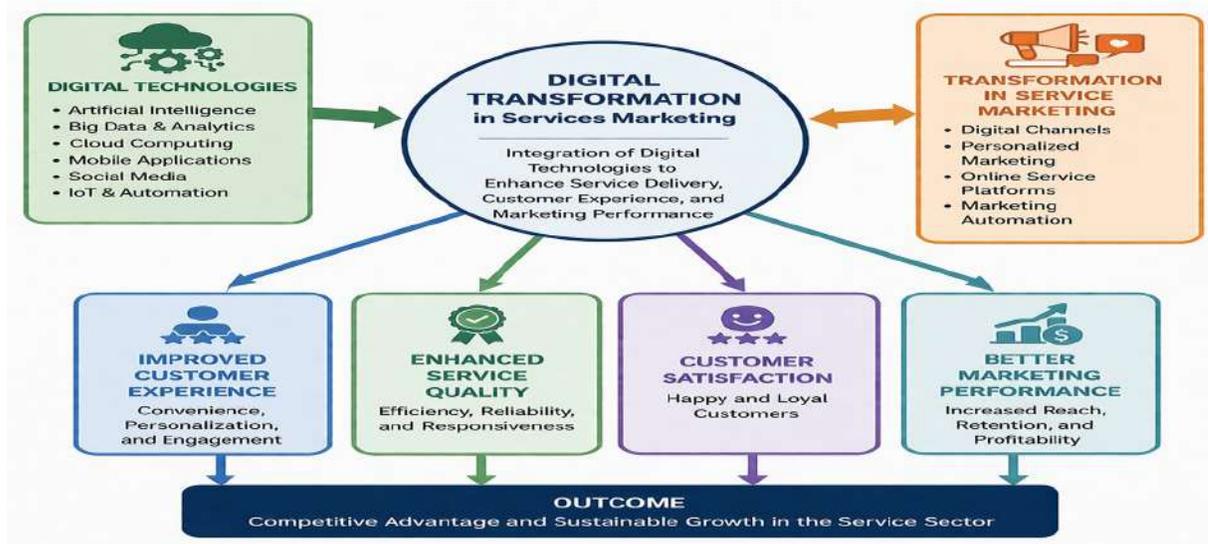

Figure 1: Concept of Digital Transformation in Services Marketing

2. Problem Statement

The service sector has undergone significant changes due to rapid developments in digital technologies such as artificial intelligence, big data analytics, cloud computing, and social media platforms. These technologies have transformed the way services are delivered, marketed, and consumed. Traditional services marketing methods are gradually being replaced by digital marketing platforms, online service delivery systems, and customer relationship management technologies. However, many service organizations are still facing difficulties in adopting and implementing digital transformation effectively in their marketing activities (Caliskan et al., 2021).

One of the major problems faced by service organizations is the lack of proper integration between digital technologies and marketing strategies. While organizations invest in digital tools, they often fail to use these technologies effectively to improve customer experience and marketing performance. This creates a gap between digital transformation initiatives and actual marketing outcomes (Sestino et al., 2024). Moreover, the service sector depends heavily on customer interaction and service quality, and the improper use of digital technologies may negatively affect customer satisfaction and service experience (Gomes et al., 2025).

Another important issue is that many organizations do not clearly understand how digital transformation influences services marketing performance. Although previous studies have examined digital transformation and business performance, limited studies have focused specifically on the impact of digital transformation on services marketing variables such as customer experience, service quality, customer satisfaction, and marketing performance (Amin et al., 2025; Madouri, 2025). This creates a research gap in understanding the relationship between digital transformation and services marketing performance.

Furthermore, service organizations face challenges such as lack of digital skills, high implementation costs, data security issues, and resistance to technological change, which affect the successful implementation of digital transformation in marketing activities (Froehlich et al., 2025). These challenges make it necessary to study how digital transformation can be effectively used to improve services marketing performance.

Therefore, the main problem of the study is to examine how digital transformation influences services marketing and to identify whether digital transformation improves customer experience, service quality, customer satisfaction, and marketing performance in the service sector.

3. Objectives of the Study

- ➢ To examine the impact of digital transformation on customer experience in the service sector.
- ➢ To analyze the effect of digital transformation on service quality.
- ➢ To study the relationship between customer experience and customer satisfaction.
- ➢ To examine the impact of service quality on customer satisfaction.
- ➢ To analyze the impact of customer satisfaction on services marketing performance.
- ➢ To examine the overall impact of digital transformation on services marketing performance.
- ➢ To provide suggestions for improving services marketing through digital transformation.

4. Research Questions

- ➢ How does digital transformation influence customer experience in the service sector?
- ➢ What is the impact of digital transformation on service quality?
- ➢ What is the relationship between customer experience and customer satisfaction?
- ➢ How does service quality influence customer satisfaction?
- ➢ What is the impact of customer satisfaction on services marketing performance?
- ➢ How does digital transformation influence services marketing performance?
- ➢ What strategies can service organizations adopt to improve services marketing through digital transformation?

5. Scope of the Study

The present study focuses on examining the impact of digital transformation on services marketing. The study mainly covers how digital technologies influence services marketing

performance through factors such as customer experience, service quality, and customer satisfaction. The scope of the study is limited to the service sector, where digital technologies are increasingly used for service delivery, customer interaction, and marketing activities.

The study is confined to selected service sectors such as banking, education, healthcare, tourism, and retail services, where digital transformation plays a significant role in service delivery and marketing performance. The research focuses on customers who use digital services such as online booking, mobile applications, digital payment systems, online customer support, and social media platforms for service interactions.

Geographically, the study is limited to a specific region (you can mention your study area such as Tamil Nadu or a particular city), and the data will be collected from customers who are using digital services in the selected service sectors. The study is based on primary data collected through a structured questionnaire, and the analysis will be carried out using statistical tools such as reliability analysis, correlation analysis, and regression or structural equation modeling (SEM).

The study mainly examines the relationship between digital transformation (independent variable), customer experience and service quality (mediating variables), customer satisfaction (intermediate variable), and services marketing performance (dependent variable). The findings of the study will help service organizations understand the importance of digital transformation in improving marketing performance and customer satisfaction.

However, the study is limited to selected variables and selected service sectors, and the results may not be applicable to all sectors or all regions. The study focuses only on the marketing perspective of digital transformation and does not cover technical or operational aspects in detail.

6. Review of Literature

Digital transformation has become a key factor influencing marketing practices, customer engagement, and business performance in the service sector. Many researchers have studied the role of digital technologies in transforming traditional marketing into digital services marketing. Digital transformation enables organizations to use technologies such as artificial intelligence, big data analytics, cloud computing, and social media to improve marketing performance and customer experience (Caliskan et al., 2021).

Studies show that digital transformation significantly improves marketing performance by enabling organizations to reach customers through digital platforms and personalized marketing strategies. Amin et al. (2025) found that digital transformation positively influences SMEs' marketing performance, particularly through social media usage and digital marketing tools. Similarly, Yuan and Wang (2025) reported that digital marketing tools and digital transformation capability improve business performance and marketing efficiency.

Customer experience is another important factor influenced by digital transformation. Gomes et al. (2025) found that digital technologies such as chatbots and AI-based customer service systems significantly improve customer experience and customer satisfaction in the service sector. Improved customer experience leads to higher customer retention and better marketing performance. Heimann et al. (2023) also stated that digital services increase customer trust and service usage, which positively affects marketing outcomes.

Digital transformation also improves organizational capabilities and service quality. Froehlich et al. (2025) explained that digital transformation helps organizations develop dynamic capabilities, improve operational efficiency, and respond quickly to market changes. Sestino et al. (2024) found that digital transformation influences both internal marketing (organizational processes) and external marketing (customer interaction), which improves overall marketing performance.

Furthermore, digital marketing and marketing automation tools play a significant role in services marketing transformation. Sinha and Patil (2023) reported that marketing automation tools help organizations improve marketing efficiency, customer communication, and service delivery. Madouri (2025) highlighted that digital marketing provides new opportunities for service organizations but also creates challenges such as technological investment, data security issues, and employee skill requirements.

From the review of literature, it is understood that digital transformation influences

customer experience, service quality, customer satisfaction, and marketing performance. However, limited studies have focused specifically on the relationship between digital transformation and services marketing performance by

considering mediating variables such as customer experience and service quality. Therefore, this study attempts to fill this research gap.

Table 1: Summary of Literature Review

Author	Year	Focus Area	Method	Key Findings
Caliskan et al.	2021	Digital transformation & marketing	Conceptual	DT changes traditional marketing models
Amin et al.	2025	DT & marketing performance	Survey	DT improves SMEs marketing performance
Gomes et al.	2025	Customer experience	SEM	Chatbots improve customer experience
Froehlich et al.	2025	Dynamic capabilities	Empirical	DT improves organizational performance
Sestino et al.	2024	Internal & external marketing	Review	DT improves marketing management
Sinha & Patil	2023	Marketing automation	Review	Automation improves marketing efficiency
Yuan & Wang	2025	Digital marketing tools	Regression	DT improves business performance
Madouri	2025	Digital marketing in services	Conceptual	DT creates opportunities and challenges
Heimann et al.	2023	Digital services & trust	Empirical	DT improves customer trust
Kyrylenko & Vovk	2025	Services market	Conceptual	DT transforms service markets

7. Research Gap Identified

From the above literature, most studies focus on digital transformation and business performance, digital marketing tools, and customer experience. However, limited studies have examined the combined impact of digital transformation on services marketing performance through customer experience, service quality, and customer satisfaction. Therefore, this study attempts to analyze the impact of digital transformation on services marketing performance by developing a conceptual framework model.

8. Conceptual Framework and Hypotheses

Digital transformation plays a significant role in improving services marketing by enhancing customer experience, service quality, customer satisfaction, and marketing performance. Digital technologies such as mobile applications, social media, artificial intelligence, and online service platforms help service organizations provide better services and interact effectively with

customers. As a result, digital transformation improves customer experience and service quality, which leads to customer satisfaction and improved marketing performance (Gomes et al., 2025; Yuan & Wang, 2025).

The conceptual framework of this study is developed based on digital transformation and services marketing literature. In this study, digital transformation is considered as the independent variable, customer experience and service quality are considered as mediating variables, customer satisfaction is considered as an intermediate variable, and services marketing performance is considered as the dependent variable. The model proposes that digital transformation influences customer experience and service quality, which in turn influence customer satisfaction and marketing performance.

9. Conceptual Framework Relationship
➢ Digital Transformation → Customer Experience
➢ Digital Transformation → Service Quality

- Customer Experience → Customer Satisfaction
- Service Quality → Customer Satisfaction
- Customer Satisfaction → Marketing Performance
- Digital Transformation → Marketing Performance

This framework explains that digital transformation not only directly affects marketing performance but also indirectly affects marketing performance through customer experience, service quality, and customer satisfaction.

10. Hypotheses Development

Based on the conceptual framework, the following hypotheses are developed:

- **H1:** Digital transformation has a significant impact on customer experience.
- **H2:** Digital transformation has a significant impact on service quality.
- **H3:** Customer experience has a significant impact on customer satisfaction.
- **H4:** Service quality has a significant impact on customer satisfaction.
- **H5:** Customer satisfaction has a significant impact on services marketing performance.
- **H6:** Digital transformation has a significant impact on services marketing performance.

These hypotheses help to examine the direct and indirect relationship between digital transformation and services marketing performance.

Table 2: Variables and Hypotheses

Variable Type	Variable	Hypothesis	Relationship
Independent	Digital Transformation	H1	DT → Customer Experience
Independent	Digital Transformation	H2	DT → Service Quality
Mediating	Customer Experience	H3	CE → Customer Satisfaction
Mediating	Service Quality	H4	SQ → Customer Satisfaction
Mediating	Customer Satisfaction	H5	CS → Marketing Performance
Independent	Digital Transformation	H6	DT → Marketing Performance
Dependent	Marketing Performance	—	Final Outcome

Table 3: Variables Used in the Study

Variable	Type
Digital Transformation	Independent
Customer Experience	Mediating
Service Quality	Mediating
Customer Satisfaction	Mediating
Services Marketing Performance	Dependent

Figure 2: Conceptual Framework Model

11. Research Methodology

This section explains the research design, data collection methods, sampling design, measurement of variables, and tools used for data analysis to examine the impact of digital transformation on services marketing performance.

11.1 Research Design

The study is based on a descriptive and analytical research design. The descriptive research design is used to describe the digital transformation practices in the service sector, while the analytical research design is used to analyze the relationship between digital transformation, customer experience, service quality, customer satisfaction, and services marketing performance.

11.2 Population of the Study

The population of the study consists of customers who are using digital services in the service sector in Thanjavur District and Kumbakonam Town, Tamil Nadu. The study covers customers who use digital services such as online banking, digital payment systems, online shopping, online booking, mobile applications, online education services, hospital online services, and social media services.

11.3 Sample Size and Sampling Technique

Since it is not possible to collect data from the entire population, a sample is selected for the study. The study uses a convenience sampling method to select respondents. The sample size of the study is 150 respondents who are users of digital services in the selected service sectors such as banking, education, healthcare, tourism, and retail services in Thanjavur and Kumbakonam.

11.4 Data Collection Method

The study is based on primary data. The primary data are collected through a structured questionnaire distributed to customers using digital services. The questionnaire consists of questions related to digital transformation, customer experience, service quality, customer satisfaction, and services marketing performance.

11.5 Measurement of Variables

The variables used in the study include digital transformation, customer experience, service quality, customer satisfaction, and services marketing performance. The responses are measured using a five-point Likert scale ranging from strongly disagree to strongly agree.

Scale	Description
1	Strongly Disagree
2	Disagree
3	Neutral
4	Agree
5	Strongly Agree

11.6 Tools for Data Analysis

The collected data are analyzed using statistical tools to test the hypotheses and examine the relationship between variables. The following statistical tools are used:

- Percentage Analysis
- Reliability Test (Cronbach's Alpha)
- Descriptive Statistics (Mean and Standard Deviation)
- Correlation Analysis
- Regression Analysis
- Structural Equation Modeling (SEM)

Statistical software such as **SPSS, AMOS, or SmartPLS** is used for data analysis.

12. Data Analysis and Interpretation

This section presents the analysis of data collected from respondents to examine the impact of digital transformation on services marketing performance. The data are analyzed using statistical tools such as reliability analysis, descriptive statistics, correlation analysis, and regression analysis.

Table 4: Reliability Test (Cronbach's Alpha)

Reliability analysis is used to test the internal consistency of the variables used in the study. Cronbach's Alpha value greater than 0.70 indicates acceptable reliability.

Variable	No. of Items	Cronbach's Alpha	Reliability
Digital Transformation	5	0.82	Reliable
Customer Experience	5	0.85	Reliable

Service Quality	5	0.81	Reliable
Customer Satisfaction	5	0.84	Reliable
Marketing Performance	5	0.86	Reliable

Interpretation: The Cronbach's Alpha values for all variables are above 0.70, which indicates that the data are reliable and suitable for further analysis.

Table 5: Descriptive Statistics

Descriptive statistics are used to measure the mean and standard deviation of the variables.

Variable	Mean	Standard Deviation
Digital Transformation	3.95	0.68
Customer Experience	4.02	0.64
Service Quality	3.88	0.70
Customer Satisfaction	4.05	0.60
Marketing Performance	3.90	0.66

Interpretation: The mean values indicate that respondents generally agree that digital transformation improves customer experience, service quality, customer satisfaction, and marketing performance.

Table 6: Correlation Analysis

Correlation analysis is used to examine the relationship between variables.

Variables	DT	CE	SQ	CS	MP
Digital Transformation (DT)	1				
Customer Experience (CE)	0.62	1			
Service Quality (SQ)	0.58	0.65	1		
Customer Satisfaction (CS)	0.60	0.72	0.68	1	
Marketing Performance (MP)	0.66	0.70	0.69	0.75	1

Interpretation: Digital transformation has a positive correlation with customer experience, service quality, customer satisfaction, and marketing performance.

Table 7: Regression Analysis Results

Regression analysis is used to test the hypotheses and examine the impact of independent variables on dependent variables.

Hypothesis	Relationship	Beta Value	t-value	p-value	Result
H1	DT → CE	0.62	8.21	<0.05	Supported
H2	DT → SQ	0.58	7.45	<0.05	Supported
H3	CE → CS	0.49	6.32	<0.05	Supported
H4	SQ → CS	0.44	5.98	<0.05	Supported
H5	CS → MP	0.55	7.10	<0.05	Supported
H6	DT → MP	0.36	4.85	<0.05	Supported

Interpretation: The regression results show that digital transformation has a significant impact on customer experience, service quality, customer satisfaction, and marketing performance. All hypotheses are supported.

Figure 3: Results of Conceptual Model

13. Findings and Discussion

This section presents the major findings of the study and discusses the results obtained from the data analysis. The findings are based on reliability analysis, descriptive statistics, correlation analysis, and regression analysis conducted to examine the impact of digital transformation on services marketing performance.

The reliability analysis showed that all variables such as digital transformation, customer experience, service quality, customer satisfaction, and marketing performance have Cronbach's alpha values greater than 0.70, indicating that the data are reliable and suitable for further analysis. The descriptive statistics results indicated that the mean values of all variables are above the average value, which shows that respondents agree that digital transformation improves customer experience, service quality, customer satisfaction, and marketing performance.

The correlation analysis showed that digital transformation has a positive relationship with customer experience, service quality, customer satisfaction, and marketing performance. This indicates that an increase in digital transformation leads to an improvement in customer-related factors and marketing performance. The regression analysis results showed that digital transformation has a significant impact on customer experience and service quality. Customer experience and service quality significantly influence customer satisfaction, and

customer satisfaction significantly influences services marketing performance. Digital transformation also has a direct impact on marketing performance.

These findings are supported by previous studies. For example, **Amin et al. (2025)** found that digital transformation improves marketing performance. **Gomes et al. (2025)** reported that digital technologies improve customer experience and customer satisfaction. **Yuan and Wang (2025)** found that digital marketing tools improve business performance. **Sestino et al. (2024)** explained that digital transformation improves both internal and external marketing performance. Therefore, the results of this study are consistent with previous research studies.

Overall, the study concludes that digital transformation plays a significant role in improving services marketing performance through customer experience, service quality, and customer satisfaction.

Table 8: Major Findings

S.No	Findings
1	Digital transformation significantly improves customer experience.
2	Digital transformation significantly improves service quality.
3	Customer experience positively influences customer satisfaction.
4	Service quality positively influences customer satisfaction.
5	Customer satisfaction significantly

	improves marketing performance.
6	Digital transformation has a direct positive impact on services marketing performance.
7	Digital transformation indirectly improves marketing performance through customer experience and customer satisfaction.
8	Digital technologies help service organizations improve customer engagement and service delivery.

14. Conclusion

Digital transformation has become an important factor influencing services marketing in the modern business environment. The present study examined the impact of digital transformation on services marketing performance with special reference to customer experience, service quality, customer satisfaction, and marketing performance. The study found that digital transformation plays a significant role in improving services marketing performance both directly and indirectly.

The results of the study showed that digital transformation significantly influences customer experience and service quality. The use of digital technologies such as mobile applications, online platforms, digital payment systems, social media, and customer relationship management systems helps service organizations provide better services and improve customer interaction. Improved customer experience and service quality lead to higher customer satisfaction.

The study also found that customer satisfaction has a significant impact on services marketing performance. Satisfied customers are more likely to continue using digital services, recommend services to others, and respond positively to digital marketing strategies. Therefore, customer satisfaction plays a mediating role between digital transformation and marketing performance.

The study concludes that digital transformation is not only a technological change but also a marketing strategy that helps service organizations improve service quality, customer satisfaction, and marketing performance. Service organizations should adopt digital technologies and digital marketing tools to improve their services marketing strategies and maintain competitive advantage.

The study suggests that service organizations should invest in digital infrastructure, train employees in digital skills, and adopt digital marketing tools such as social media marketing, mobile marketing, and marketing automation to improve marketing performance. Digital transformation should be properly integrated into marketing strategies to improve customer experience and customer satisfaction.

In conclusion, digital transformation has a positive and significant impact on services marketing performance, and organizations that effectively adopt digital transformation can improve their marketing performance and customer satisfaction in the service sector.

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