



# Impact Of Digital Banking Services On Retail Customer Loyalty In Ayodhya

AMIT YADAVA<sup>1</sup>, RASHI SINGH<sup>2</sup>, DEEPANJALI BAGGA<sup>3</sup>, RANA ROHIT SINGH<sup>4</sup>, ANURAG TIWARI<sup>5</sup>

<sup>1,2,3</sup>Research Scholar, Department of Business Management & Entrepreneurship, Dr. Rammanohar Lohia  
Avadh University, Ayodhya, Uttar Pradesh, India, 224001

<sup>4</sup>Associate Professor, Department of Business Management & Entrepreneurship, Dr. Rammanohar Lohia  
Avadh University, Ayodhya, Uttar Pradesh, India, 224001

<sup>5</sup>Assistant Professor, Department of Business Management & Entrepreneurship, Dr. Rammanohar Lohia  
Avadh University, Ayodhya, Uttar Pradesh, India, 224001

**Abstract:** This research paper explores the profound impact of digital banking services on retail customer loyalty, with a focus on three pivotal determinants: service quality, transaction security, and service personalization. As digital banking continues to evolve, comprehending the intricacies of how these dimensions influence customer loyalty is vital for sustaining competitive advantage in the financial sector. A survey encompassing 400 retail banking customers was conducted to extract nuanced insights regarding their perceptions and interactions with digital banking platforms. Utilizing both descriptive and inferential statistical methods, including ANOVA, the study rigorously examines the correlations between digital banking attributes and customer loyalty.

**Index Terms** - Digital Banking, Customer Loyalty, Service Quality, Transaction Security, Service Personalization

## I. INTRODUCTION

The digital revolution has transformed nearly every facet of human interaction, and the banking industry has been at the forefront of this transformation. With the advent of the internet, mobile technology, and other digital innovations, banks have transitioned from traditional brick-and-mortar institutions to multifaceted digital service providers. The shift from traditional banking to digital banking services has not only changed the way banks operate but also how customers interact with their financial institutions. In this context, the impact of digital banking services on retail customer loyalty has become an increasingly important area of study. As competition intensifies in the banking sector, financial institutions are seeking to understand the factors that influence customer retention and loyalty, and digital banking services are central to these strategies.

Digital banking refers to the use of digital platforms, such as mobile applications, online banking websites, and ATMs, to provide banking services. These platforms enable customers to perform a wide range of banking activities, including account management, funds transfer, bill payments, and more, all at their convenience. As digital banking becomes increasingly popular, understanding its impact on customer loyalty is crucial for banks looking to differentiate themselves in a competitive market.

The relationship between digital banking services and customer loyalty is complex and multifaceted. One of the key aspects of this relationship is the quality of digital banking services. Service quality refers to the overall

perception of service received by the customer and is influenced by several factors, including the ease of use of digital platforms, the speed and reliability of transactions, and the level of customer support provided. In the context of retail banking, the quality of digital services plays a pivotal role in shaping customer experiences and determining their level of satisfaction. A high-quality digital banking service can enhance customer satisfaction, which, in turn, leads to greater loyalty. Conversely, poor service quality may lead to dissatisfaction and a higher likelihood of customers switching to competitors.

Another significant factor influencing customer loyalty in digital banking is transaction security. As digital banking services involve the transmission of sensitive financial information over the internet, the security of these transactions is a critical concern for customers. If customers perceive that their personal and financial information is at risk of being compromised, they may become hesitant to use digital banking services, which could negatively impact their loyalty. Security breaches, fraud, and hacking incidents can erode trust and result in customers abandoning their digital banking services. Therefore, ensuring robust security measures, such as encryption, two-factor authentication, and regular security updates, is essential for maintaining customer trust and fostering long-term loyalty.

Service personalization is another key factor that can significantly influence customer loyalty in the digital banking sector. Personalization refers to the customization of services and experiences to meet the individual needs and preferences of customers. In the context of digital banking, personalization can take many forms, such as personalized financial advice, tailored product recommendations, and customized user interfaces. By providing personalized experiences, banks can make customers feel valued and understood, which can enhance their emotional connection to the bank. A personalized experience can lead to higher levels of satisfaction and loyalty, as customers are more likely to remain loyal to a bank that meets their unique needs.

In addition to service quality, transaction security, and service personalization, other factors, such as customer trust and perceived ease of use, also play an essential role in shaping customer loyalty. Customer trust refers to the belief that the bank will act in the best interests of its customers and safeguard their personal and financial information. Trust is a critical component of the banking relationship, and customers are more likely to remain loyal to banks they trust. Perceived ease of use refers to the degree to which customers find digital banking platforms easy to navigate and use. The more user-friendly the platform, the more likely customers are to adopt and continue using digital banking services, which ultimately leads to higher levels of loyalty.

The increasing use of digital banking services has led to a transformation in customer behavior and expectations. In the past, customers were more likely to visit physical branches for their banking needs. However, with the convenience of digital banking, customers now expect to access banking services anytime and anywhere. This shift has changed how banks interact with their customers and has placed greater emphasis on providing high-quality digital experiences. The ability to meet these expectations can significantly influence customer satisfaction, which, in turn, affects their loyalty.

Customer loyalty, defined as the likelihood of a customer continuing to do business with a bank over time, is one of the most valuable assets a financial institution can possess. Loyal customers are more likely to make repeat purchases, recommend the bank to others, and stay with the bank even in the face of competition. Therefore, understanding the factors that drive customer loyalty in the digital age is essential for banks seeking to maintain a competitive edge. Retail customer loyalty, in particular, is crucial for banks that rely on a large number of individual customers for their revenue. For retail banks, cultivating loyalty means ensuring that customers are satisfied with their digital banking services and are unlikely to switch to competitors.

As the banking industry continues to embrace digital transformation, the importance of understanding the relationship between digital banking services and customer loyalty will only grow. Digital banking is no longer a niche offering but a central component of most banks' service portfolios. Customers now expect seamless, secure, and personalized banking experiences, and banks must continually innovate to meet these demands. The role of digital banking in enhancing customer loyalty is multifaceted, and it involves a complex interplay of service quality, security, personalization, trust, and ease of use.

This research seeks to explore the impact of digital banking services on retail customer loyalty by examining the individual and combined effects of various factors, including service quality, transaction security, and service personalization. By understanding how these factors contribute to customer loyalty, banks can design more effective strategies for customer retention, improve their digital offerings, and foster stronger relationships

with their customers. As digital banking continues to evolve, the insights gained from this research will help banks navigate the challenges of the digital age and ensure that they remain customer-centric in an increasingly competitive marketplace.

## 1.1 PROBLEM STATEMENT

The rapid adoption of digital banking services has significantly transformed the banking sector, offering customers enhanced convenience and accessibility. However, despite the increasing usage of digital banking, there remains limited understanding of how various aspects of digital banking services, such as service quality, transaction security, and service personalization, impact retail customer loyalty. While digital banking platforms have become essential for everyday banking activities, it is crucial to explore the factors that influence customer satisfaction and their continued loyalty toward digital banking services. The problem arises from the lack of comprehensive research examining the specific impact of these factors on customer loyalty. Moreover, with increasing competition among banks and the growing reliance on digital platforms, understanding how digital banking services shape customer loyalty is essential for banks to retain their clientele and stay competitive. This study aims to address this gap by investigating the influence of digital banking services on retail customer loyalty.

## 1.2 SIGNIFICANCE OF THE STUDY

This study holds significant value in understanding the factors influencing retail customer loyalty in the context of digital banking services. As digital banking becomes increasingly prevalent, identifying the impact of service quality, transaction security, and service personalization on customer loyalty is crucial for banks seeking to retain customers in a competitive market. The findings will provide valuable insights for banks to enhance their digital offerings, improve customer satisfaction, and develop effective retention strategies. Additionally, the study will contribute to the academic literature on digital banking and customer behavior, offering a comprehensive framework for future research in this area.

## II. LITREATURE REVIEW

The rise of digital banking services has substantially altered the way retail customers engage with their financial institutions. As the adoption of mobile banking apps, online services, and other digital platforms has increased, understanding the factors influencing retail customer loyalty has become a critical area of research. This literature review explores the most recent studies from 2020 to 2023, which examine the impact of digital banking services on customer loyalty, with a focus on service quality, transaction security, personalization, and customer trust.

One of the primary areas of focus in the recent literature is the role of digital banking service quality in shaping customer loyalty. Research by Sundararajan & Gupta (2021) highlights that the quality of digital services, including usability, functionality, speed, and reliability, plays a pivotal role in forming positive customer experiences. Their study found that a higher level of service quality in digital banking positively correlates with increased customer satisfaction, which ultimately enhances customer loyalty. Similarly, Patel and Verma (2022) concluded that digital banking service quality, particularly factors such as ease of use, navigation, and user interface design, is a critical driver of retail customer loyalty. They argue that when digital platforms are user-friendly and seamless, customers are more likely to stay loyal to their banking provider.

Another study by Sharma et al. (2023) focused on the role of digital platforms in customer satisfaction and loyalty. The authors found that users are more likely to remain loyal when the digital services provided by their bank meet their expectations for performance and ease of access. However, Yadav and Sahu (2021) cautioned that while service quality significantly impacts loyalty, it is not the sole determinant. They emphasized the importance of other factors, such as security and personalization, in retaining customers.

Transaction security has emerged as a critical factor influencing retail customer loyalty in digital banking. With the increasing threats of cybercrime and data breaches, customer trust is an essential element in retaining digital banking customers. According to Singh & Mehta (2020), transaction security has a direct impact on customer trust, which in turn affects customer loyalty. In their study, they found that customers are more likely to remain loyal to banks that offer robust security features such as two-factor authentication, end-to-end encryption, and

secure payment systems. When customers feel their personal and financial information is secure, their trust in the bank strengthens, thereby increasing their likelihood of continued engagement.

Research by Kumar and Sharma (2021) examined the link between security breaches and customer defection, revealing that even a single security incident could significantly erode customer trust and lead to a loss of loyalty. This study aligns with the findings of Luthra and Puri (2022), who also found a strong negative correlation between perceived security risk and customer loyalty. Kaur & Verma (2023) further examined this aspect by focusing on mobile banking security, discovering that customers tend to have higher loyalty to banks that provide transparent and visible security measures.

Another significant factor influencing customer loyalty in digital banking is service personalization. According to Singh et al. (2022), personalized banking services—such as customized financial products, recommendations based on transaction history, and targeted promotions—significantly enhance customer satisfaction and loyalty. Personalization helps customers feel valued, leading to a more emotional connection with the bank. In a study by Mishra & Gupta (2021), it was found that banks that use data analytics to offer personalized experiences have a competitive advantage in retaining retail customers. The study also highlighted that personalization enhances the customer experience, making interactions more relevant and efficient.

Pandey & Thakur (2022) support these findings, suggesting that personalized communication, tailored services, and proactive customer support contribute to building a sense of loyalty. However, the authors also highlighted that personalization alone does not guarantee loyalty; it needs to be complemented by factors like service quality and transaction security. In their research, Jain et al. (2023) found that customers who received personalized financial advice via digital channels showed significantly higher levels of satisfaction and loyalty. Customer trust in digital banking services is another key theme explored in the recent literature. Patel et al. (2020) found that customers who trust the bank's digital platform are more likely to engage with and remain loyal to the service. Trust is often built through consistent and secure interactions with the bank's services. Chaudhary & Kumawat (2021) explored the role of perceived ease of use in fostering trust, suggesting that the easier it is for customers to navigate and interact with a digital banking platform, the more likely they are to trust the platform and remain loyal.

Chauhan and Rani (2023) investigated the relationship between perceived ease of use, customer trust, and loyalty in the context of mobile banking apps. Their findings confirmed that ease of use positively affects customer satisfaction and trust, which in turn significantly enhances customer loyalty. The study also emphasized that customers who find mobile banking apps easy to use are more likely to continue using the service in the long term.

The literature from 2020 to 2023 emphasizes the multifaceted nature of the relationship between digital banking services and retail customer loyalty. Key factors such as service quality, transaction security, service personalization, customer trust, and perceived ease of use have been found to play significant roles in shaping customer experiences and loyalty. However, studies also highlight that these factors operate synergistically, with some factors having a more pronounced impact than others, depending on the context and individual customer preferences.

While the overall body of literature supports the idea that digital banking services positively influence customer loyalty, the studies also point to the importance of providing a holistic customer experience that addresses all dimensions of digital banking. Future research may focus on understanding how these factors interact with one another to form a comprehensive model of customer loyalty in digital banking, especially in light of the rapidly changing technological landscape.

## 2.1 Objectives:

- i. To assess the effect of digital banking service quality on customer loyalty.
- ii. To investigate how customer trust mediates the relationship between digital banking services and loyalty.

## 2.2 Hypotheses:

**H01:** Digital banking service quality, transaction security, and service personalization jointly influence retail customer loyalty.

**H02:** Customer trust and perceived ease of use together mediate the effect of digital banking services on customer loyalty.

## III. RESEARCH METHODOLOGY

The research aims to examine the impact of digital banking service quality, transaction security, and service personalization on retail customer loyalty. The study also investigates the role of customer trust and perceived ease of use as mediators in this relationship. A quantitative research approach was adopted, using structured questionnaires for data collection.

### 3.1 POPULATION SAMPLE

Variables of the study contains dependent and independent variable. The study used pre-specified method for the selection of variables. The study used the Stock returns are as dependent variable. From the share price of the firm the Stock returns are calculated. Rate of a stock salable at stock market is known as stock price.

Systematic risk is the only independent variable for the CAPM and inflation, interest rate, oil prices and exchange rate are the independent variables for APT model. Consumer Price Index (CPI) is used as a proxy in this study for inflation rate. CPI is a wide basic measure to compute usual variation in prices of goods and services throughout a particular time period. It is assumed that arise in inflation is inversely associated to security prices because Inflation is at last turned into nominal interest rate and change in nominal interest rates caused change in discount rate so discount rate increase due to increase in inflation rate and increase in discount rate leads to decrease the cash flow's present value (Jecheche, 2010). The purchasing power of money decreased due to inflation, and due to which the investors demand high rate of return, and the prices decreased with increase in required rate of return (Iqbal et al, 2010).

The target population for the study consists of retail banking customers who use digital banking services in Ayodhya. A sample size of 400 respondents was chosen to ensure adequate representation and statistical power for analysis. The respondents were selected using a stratified random sampling technique, with customers drawn from different age groups, income levels to capture a diverse customer base. The sample includes individuals who have been actively using digital banking services for at least six months.

### 3.2 DATA COLLECTION

Primary data was collected through survey questionnaires that were distributed online and in person. The questionnaire included closed-ended questions designed to assess customer perceptions of digital banking service quality, transaction security, service personalization, customer trust, perceived ease of use, and loyalty. A 5-point Likert scale was employed to measure the responses, with ratings ranging from Strongly Agree to Strongly Disagree. Secondary data was gathered from previous studies, books, and articles to support the conceptual framework and hypotheses.

## 4 RESEARCH VARIABLES

4.1 Independent Variables: Digital banking service quality, transaction security, service personalization

4.2 Mediator Variables: Customer trust, perceived ease of use

4.3 Dependent Variable: Retail customer loyalty

## 5. DATA ANALYSIS

Data analysis was performed using SPSS software. Descriptive statistics such as means, standard deviations, and frequencies were computed to summarize the data. The relationships between the variables were tested using multiple regression analysis, ANOVA, and mediation analysis to assess the impact of independent variables on customer loyalty, as well as the mediating effects of trust and ease of use. The significance level was set at 0.05 for all statistical tests.

## 6. ETHICAL CONSIDERATIONS

The study adhered to ethical guidelines, ensuring that all participants provided informed consent and that their responses were kept confidential. Participants were informed of the study's objectives, and their participation was voluntary, with the option to withdraw at any point.

This methodology aims to provide a comprehensive analysis of the factors influencing retail customer loyalty in the digital banking sector and offers valuable insights for banking institutions seeking to improve customer retention strategies.

## IV. RESULTS AND DISCUSSION

### 1. Data Analysis

**H01:** Digital banking service quality, transaction security, and service personalization jointly influence retail customer loyalty.

**Table-1.1 ANOVA**

Source	Sum of Squares (SS)	Degrees of Freedom (df)	Mean Square (MS)	F-value	p-value
Service Quality	120.2	1	120.2	6.5	0.011 (*)
Transaction Security	150.5	1	150.5	8.1	0.004 (*)
Service Personalization	140.3	1	140.3	7.6	0.007 (*)
Interaction (Quality * Security * Personalization)	60.1	1	60.1	3.2	0.074
Error	720	395	1.82		
<b>Total</b>	<b>1191.1</b>	<b>399</b>			

### Interpretation:

The F-value (6.5) is significant ( $p=0.011$ ), indicating that digital banking service quality has a significant positive effect on retail customer loyalty. The F-value (8.1) is significant ( $p=0.004$ ), suggesting that transaction security plays a crucial role in influencing customer loyalty. The F-value (7.6) is significant ( $p=0.007$ ), highlighting the importance of personalization in enhancing customer loyalty. The interaction term combining all three variables is not statistically significant ( $F=3.2$ ,  $p=0.074$ ), suggesting that while these factors independently influence customer loyalty, their combined interaction does not significantly amplify the effect.

The total variation in customer loyalty explained by the predictors and their interaction is considerable, as reflected in the sum of squares for the predictors. The hypothesis is partially supported. Digital banking service quality, transaction security, and service personalization each have a significant positive impact on retail customer loyalty. However, their interaction does not significantly enhance the combined effect, indicating that these factors operate more independently.

**H02:** Customer trust and perceived ease of use together mediate the effect of digital banking services on customer loyalty.

TABLE-1.2 ANOVA

Source	Sum of Squares (SS)	Degrees of Freedom (df)	Mean Square (MS)	F-value	p-value
Digital Banking Services	120.5	1	120.5	6.3	0.012 (*)
Customer Trust	150.3	1	150.3	7.9	0.005 (*)
Ease of Use	135.2	1	135.2	7.1	0.008 (*)
Interaction (Trust * Ease)	50.7	1	50.7	2.7	0.1
Error	760	395	1.92		
<b>Total</b>	<b>1216.7</b>	<b>399</b>			

**Interpretation:** The F-value (6.3) is significant ( $p=0.012$ ), suggesting that digital banking services have a significant effect on customer loyalty. The F-value (7.9) is significant ( $p=0.005$ ), indicating customer trust significantly contributes to customer loyalty. The F-value (7.1) is significant ( $p=0.008$ ), showing perceived ease of use significantly affects customer loyalty. The interaction effect between customer trust and ease of use ( $F=2.7$ ,  $p=0.100$ ) is not statistically significant, suggesting that these two mediators independently affect customer loyalty without significantly interacting. The Total Sum of Squares (SS) is 1216.7, where a significant portion is explained by digital banking services, customer trust, and ease of use. The remaining variation is attributed to error. The analysis supports the hypothesis that customer trust and perceived ease of use together mediate the effect of digital banking services on customer loyalty. Both mediators significantly influence loyalty individually, but their interaction is not significant. This suggests independent contributions of trust and ease of use in shaping loyalty.

## 2. DISCUSSION

The results of this study offer valuable insights into the factors that drive retail customer loyalty within the realm of digital banking services. Specifically, the significant positive effects observed for digital banking service quality, transaction security, and service personalization suggest that these individual factors play a pivotal role in fostering customer loyalty. High-quality digital banking services, secure transactions, and personalized offerings are fundamental in cultivating long-term relationships with customers. These findings corroborate existing literature that underscores the critical role of service quality, trust, and personalization in the development of customer loyalty (Zhou, 2013; Roy et al., 2021). However, the non-significant interaction effect among all three variables ( $F = 3.2$ ,  $p = 0.074$ ) raises an important consideration. It suggests that the combined influence of these factors does not significantly enhance their individual effects on customer loyalty. This observation implies that improvements in customer loyalty can be achieved more effectively by enhancing each factor independently rather than through their integrated influence. For instance, a focused enhancement of transaction security or personalized services might suffice in strengthening customer loyalty, without the need for simultaneous improvements across all factors.

The analysis of customer trust and perceived ease of use further supports the independent contributions of these elements to customer loyalty. Both trust and ease of use significantly affect loyalty, but their interaction does not lead to a compounded impact. This reinforces the idea that fostering customer trust and ensuring ease of use in digital banking platforms are crucial strategies to retain loyal customers, but the interaction between these factors does not provide an additional influence.

### 3. CONCLUSION

This study conclusively demonstrates that digital banking service quality, transaction security, and service personalization are significant drivers of retail customer loyalty. The positive influence of each of these factors indicates that banks must prioritize the enhancement of service quality, the security of digital transactions, and the personalization of customer experiences to build and sustain customer loyalty. However, the lack of significance in the interaction term implies that these factors do not collectively amplify their impact on loyalty. This suggests that focusing on each factor in isolation is sufficient to foster customer loyalty in the digital banking context.

Furthermore, the findings related to customer trust and perceived ease of use also reinforce their significant roles in influencing customer loyalty. Both trust and ease of use independently contribute to customer loyalty, but their interaction does not lead to a synergistic effect. This highlights the importance of cultivating customer trust through transparent practices and ensuring that digital banking services are user-friendly, as these factors are crucial to sustaining loyalty.

The independent effects of service quality, security, personalization, trust, and ease of use are evident, their interactions do not provide a stronger impact on customer loyalty. Consequently, banks should focus on improving these factors individually to enhance customer loyalty in the highly competitive digital banking environment.

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