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Consumer Perspective on Disruption of Traditional Banking by Fintech

Riffath Farhandha. N[1], Dr. Mohan Kumar. R[2]

[1]M. Com FA Student, Kristu Jayanti College (Autonomous), Bengaluru. 23mcfa29@kristujayanti.com
[2]Faculty Department of Commerce (PG), Kristu Jayanti College (Autonomous), Bengaluru.

ABSTRACT:

This research investigates consumer viewpoints regarding the impact of fintech services on traditional banking. It centers on three primary goals: assessing consumer awareness and perceptions of fintech in relation to traditional banks, examining the determinants that affect the adoption of fintech, and analyzing the influence of fintech on financial decision-making processes. The study reveals that factors such as convenience, affordability, and technological advancement are significant motivators for fintech adoption, whereas issues of trust and security present challenges. The results offer valuable insights into the transformation of consumer behavior due to fintech and provide strategic guidance for traditional banks to adjust and maintain their competitiveness in the changing financial environment.

Keywords: Fintech, Traditional Banking, Consumer Awareness, Adoption, Decision-Making, Convenience, Trust, Security, Competitiveness.

INTRODUCTION:

The financial sector is undergoing significant changes with the emergence of fintech, which provides innovative options that challenge conventional banking practices. Fintech offerings—such as digital payment systems, mobile wallets, and AI-driven solutions—appeal to tech-oriented consumers by delivering convenience, speed, and cost-effectiveness. However, traditional banks continue to enjoy consumer confidence, largely due to their regulatory safeguards and established personal connections. The rise of fintech has compelled banks to integrate technology to maintain their competitive edge. Consumer acceptance hinges on factors such as usability, pricing, trustworthiness, and security. While many are enthusiastic about the innovations brought by fintech, others remain cautious due to concerns regarding data privacy.This research examines consumer awareness, critical factors influencing adoption, and the effects of fintech on financial choices, providing valuable insights into how both fintech companies and traditional banks can navigate the changing financial environment.

REVIEW OF LITERATURE:

1. Belinda Nkatekho (2024) — The Impact of Fintech Innovations on Traditional Banking System

This study explores how fintech has transformed the financial industry by enhancing operational efficiency and increasing customer satisfaction. It also highlights the challenges fintech poses to conventional banking institutions and recommends that they invest in technology, foster innovation, and improve workforce capabilities.

2. Shubham Kumar (2019) — Impact of Fintech on Traditional Banking

This research explores the profound transformations that fintech introduces to conventional banking institutions. It emphasizes the disruptions affecting traditional banking structures, driven by improved efficiency, increased accessibility, and rising customer expectations stemming from fintech innovations.

3. Vanessa Iyelolu and Patience Okpeke Paul (2024) — Disruption of Traditional Banking by Fintech: A Review and Financial Analysis

This research explores the key factors that are disrupting traditional banking due to fintech, including advancements in technology, shifting consumer preferences, and regulatory changes. The authors conclude that while fintech presents challenges for established banks, it also offers avenues for innovation and growth.

4. Agata Wolska (2020) — Bridging the Gap: The Impact of Open Banking on Traditional Banking and Fintech Collaboration

This study explores how open banking fosters collaboration between fintech firms and conventional banking institutions. It highlights the benefits of these alliances in driving innovation, enhancing customer experiences, and reshaping the financial sector.

<u>Statement of the Problem:</u>

The swift emergence of fintech has transformed the landscape of traditional banking by providing quicker, more efficient, and customer-focused financial services. Although fintech promotes greater accessibility and innovation, traditional banks encounter difficulties in adjusting to these technological changes. This research seeks to investigate consumer perceptions of fintech services, the elements influencing their adoption, and the effects on conventional banking practices.

Research Gap:

While there is an increasing body of research on fintech innovations, there remains a lack of emphasis on the impact of consumer trust, awareness, and financial decision-making on the adoption of fintech services. Current literature primarily addresses operational challenges and partnerships between banks and fintech companies, neglecting the psychological and socio-economic elements that influence consumer choices. This study aims to address this gap by exploring consumer behavior and its effects on both fintech entities and traditional banking institutions.

Objective of the study:

1. To explore consumer awareness and perceptions of fintech services compared to traditional banking

2. To analyze the key factors influencing consumer adoption of fintech solutions

3. To evaluate the impact of fintech services on consumer financial decision-making

Hypothesis of the study:

1. To explore consumer awareness and perceptions of fintech services compared to traditional banking

Null Hypothesis (H_0): Consumer demographics, including age, education, and occupation, do not have a significant relationship with their awareness or perception of fintech services.

Alternative Hypothesis (H_1): There exists a significant relationship between consumer demographics and their awareness or perception of fintech services.

2. To analyze the key factors influencing consumer adoption of fintech solutions

Null Hypothesis (H_0): Elements including security, convenience, cost-effectiveness, and service speed have no significant effect on the adoption of fintech solutions by consumers.

Alternative Hypothesis (H_1): Elements including security, convenience, cost-effectiveness, and service speed have a significant effect on the adoption of fintech solutions by consumers.

3. To evaluate the impact of fintech services on consumer financial decision-making

Null Hypothesis (H_0): Consumer financial decision-making remains unchanged before and after the utilization of fintech services.

Alternative Hypothesis (H_1): There is a notable change in consumer financial decision-making before and after the utilization of fintech services**.**

Scope of the study:

This research examines consumer viewpoints on the impact of fintech services on conventional banking in North Bangalore, Karnataka. It delves into consumer awareness, perceptions, and the patterns of fintech adoption, juxtaposing these with traditional banking services. The objective is to identify the key factors driving fintech adoption, including convenience, cost-effectiveness, and security, while evaluating their influence on customer satisfaction. Furthermore, the study addresses the challenges that traditional banks encounter in maintaining their customer base as fintech platforms gain popularity. By gathering primary data from consumers in North Bangalore, the research provides localized insights into socio-economic and technological trends, offering valuable recommendations for both traditional banks and fintech companies to effectively respond to the changing needs of consumers in this area.

RESEARCH METHODOLOGY:

DATA COLLECTION METHOD

In my study on consumer perspectives regarding fintech disruption and traditional banking, I am utilizing primary data, which involves collecting original information directly from consumers through questionnaires for the specific purpose of this research.

RESEARCH TOOLS AND TECHNIQUES:

The research tools and techniques used in this project include SPSS for data processing and analysis. The study employs three key statistical techniques: the Chi-square test, Regression Analysis, and the Paired Sample T-test. These methods help examine the relationship between demographic variables and fintech adoption. The structured questionnaire serves as the primary research instrument for collecting consumer insights.

DATA ANALYSIS AND INTERPRETATION

1. Consumer Awareness and Perceptions of Fintech And Traditional Banking

The researcher compiled data regarding consumers' awareness and perceptions of fintech services in relation to traditional banking services using a structured questionnaire. To assess the impact of demographic factors—such as age, gender, education level, and occupation—on the awareness and adoption of fintech services, a Chi-Square Test for Independence was performed.

The hypotheses for this analysis are as follows:

- **Null Hypothesis (H$_0$):** Demographic factors do not significantly influence consumer awareness and adoption of fintech services.

- **Alternative Hypothesis (H$_1$):** Demographic factors significantly influence consumer awareness and adoption of fintech services

Table 1: Chi-Square Analysis of Demographic Factors and Fintech Adoption

Demographic Variable	Variables Compared	Chi-Square Value	p-value	Degrees of Freedom
Age	Awareness of Fintech Services	72.19	0.000	2
	Fintech Services Used	55.81	55.81	4
	Knowledge of Traditional Banking	19.49	0.000	2
Gender	Awareness of Fintech Services	72.19	0.000	1
	Fintech Services Used	31.02	0.000	2
Education Level	Fintech Usage	23.63	0.000	4
Occupation	Awareness of Fintech Services	105.00	0.000	3

Interpretation of Results

1. Age

- **Age vs Awareness of Fintech Services**: The p-value (0.000) < 0.05 indicates a significant relationship between age and fintech awareness. The results suggest that younger consumers (20–30 years) are more aware of fintech services, while older age groups have lower awareness levels.

- **Age vs Fintech Services Used**: The Chi-Square test confirms that age significantly influences the type of fintech services used. Younger consumers prefer mobile wallets (Google Pay, Paytm, etc.)**,** while older groups show interest in investment and peer-to-peer lending platforms**.**

- **Age vs Knowledge of Traditional Banking**: A significant association is found between age and traditional banking knowledge. Older individuals (31–40) rate their **knowledge** of traditional banking as better than younger consumers, who are more inclined toward fintech solutions.

2. Gender

- **Gender vs Awareness of Fintech Services**: The p-value of 0.000 suggests that fintech awareness varies significantly between genders**.** Female respondents reported higher awareness and adoption of fintech services than male respondents.

- **Gender vs Fintech Services Used**: The data suggests a statistically significant association between gender and the type of fintech services used. While both genders prefer mobile wallets, males are more likely to use online investment and peer-to-peer lending platforms**.**

3. Educational Qualification

- **Education Qualification vs Fintech Usage**: Educational background has a significant impact on fintech adoption. Postgraduates show higher engagement with fintech services**,** particularly in digital investments and AI-driven financial planning tools**.**

4. Occupation

- **Occupation vs Awareness of Fintech Services**: The results indicate a strong relationship between occupation and fintech awareness. Students and self-employed individuals are the most aware and active users of fintech services, whereas traditionally employed individuals and unemployed respondents show lower adoption rates.

2. Factors influencing consumer adoption of fintech solutions

A multiple regression analysis was performed to investigate the impact of several independent variables on the adoption of fintech. The dependent variable in this study is fintech adoption, whereas the independent variables encompass demographic and behavioral factors, including age, education, occupation, and digital literacy. The hypotheses for this analysis are as follows:

- **Null Hypothesis (H₀):** Independent variables do not significantly influence fintech adoption.

- **Alternative Hypothesis (H₁):** Independent variables significantly influence fintech adoption.

Table 2: ANOVA Results for Regression Model on Fintech Adoption

Model	Sum of Squares	df	Mean Square	F	Sig. (p-value)
Regression	3.813	6	0.635	1.715	0.126
Residual	36.321	98	0.371		
Total	40.133	104			

The ANOVA test results indicate that the overall regression model is not statistically significant (p-value = 0.126 > 0.05), suggesting that the independent variables collectively do not strongly predict fintech adoption.

3. Impact of fintech services on consumer financial decision-making

A Paired Sample T-Test was performed to assess the significance of the difference between the frequency of Fintech usage and the level of trust in Fintech. This analysis aims to establish whether the mean difference between these two interconnected variables is statistically significant.

The hypotheses for this analysis are as follows:

- **Null Hypothesis (H₀):** There is no significant difference between fintech usage frequency and fintech trust level

- **Alternative Hypothesis (H₁):** There is a significant difference between fintech usage frequency and fintech trust level

Table 3: Descriptive Statistics Summary for Paired Sample T-Test on   Fintech Usage and Trust

Variable	Mean	N	Std. Deviation
Fintech Usage Frequency	2.20	105	0.752
Fintech Trust Level	2.53	105	0.721

The mean for Fintech Trust Level (2.53) is higher than Fintech Usage Frequency (2.20), indicating that consumers tend to trust fintech services more than they frequently use them.

Findings of the study:

1. Consumers in the 20 to 30 age bracket demonstrate a higher level of awareness and utilization of fintech services compared to older age groups, who generally prefer conventional banking practices. Among those surveyed, women, individuals with advanced degrees, and self-employed persons are the most active users of fintech. The primary applications include mobile wallets and digital banking, while the adoption of AI-driven tools and peer-to-peer lending remains relatively low.

2. Awareness of fintech is essential for fostering its adoption, while demographic characteristics have a minimal impact on this phenomenon. Security concerns and the user-friendliness of fintech solutions significantly shape consumer choices. Despite the advantages of speed and convenience that fintech provides, challenges related to data privacy and cybersecurity continue to hinder broader acceptance.

3. A notable correlation exists between consumer trust in fintech and actual usage rates. This suggests that while trust is vital for encouraging adoption, other factors such as habitual usage, necessity, and accessibility may also influence fintech engagement. Strengthening efforts to build consumer trust could further enhance adoption rates.

Conclusion:

The study concludes that Fintech has significantly disrupted traditional banking, offering consumers convenient, cost-effective, and accessible financial solutions. Younger, educated, and digitally exposed consumers are driving adoption, though security concerns and behavioral habits limit usage. Traditional banks are adapting by integrating digital services and partnering with fintech firms. The future of banking will involve greater collaboration, creating a hybrid financial ecosystem. Addressing security, awareness, and user experience will be key to fintech's continued growth and transformation.

Suggestions and Recommendations:

Based on the finding here are some suggestion and recommendation

1. **Promoting Consumer Education** – Develop and implement programs aimed at improving financial literacy, while refining marketing approaches to better connect with older adults, long-term employees, and rural populations.

2. **Reducing Security Vulnerabilities** – Strengthen data protection measures and integrate advanced cybersecurity solutions, such as biometric authentication and AI-driven fraud detection systems.

3. **Encouraging Collaboration between Banks and Fintech Companies** – Traditional banks should embrace fintech advancements and collaborate with startups to deliver innovative and secure financial services.

4. **Closing the Trust-Usage Divide** – Improve the user experience by creating intuitive platforms, offering incentives like cashback rewards, and ensuring strong customer support for quick issue resolution.

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