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A STUDY ON THE IMPACT OF THE DIGITAL TRANSFORMATION ON BANKING SECTOR WITH REFERNECE TO CUSTOMER PERSPECTIVEE

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3 Guide:

ABSTRACT:

One of the main challenges in the industry is becoming digitalization which is witnessing a profound transformation to the banking system. Digitalization offers new opportunities for the banks to place the customer at the center of the development process. Digital transformation has become a pivotal force reshaping the landscape of the Indian banking sector, catalyzed by technological advancements and evolving consumer expectations. The forces shaping these changes have led the industry to reconside3r the role of banking and finance, more as an enabler than a provider of products and services.

Digital transformation has significantly influenced organizational culture, strategies, and customer-centric approaches in the Indian banking sector. This study explores its impact on customer trust and long-term loyalty using mixed-methods approach, combining qualitative interviews with bank managers, employees, and customers in vaddeswaram, Guntur, India. Findings indicate that successful banks embrace innovation, collaboration and customer-centricity while investing in employee training to adapt effectively. A strong focus on digital adaption enhances customer satisfaction and helps banks remain competitive. Ultimately, prioritizing a customer-centric approach is vital for thriving in the digital era.

1.INTRODUCTION:

The banking industry has undergone a significant transformation due to digital technologies. This study explores the role of digital banking innovations, historical context, key drivers and major technologies impacting the sector. It focuses on SBI and HDFC Bank to examine how digitalization is reshaping financial services.

1.1 INDUSTRY PROFILE:

- Banking sector overview: Evolution of banking services from traditional to digital models
- · Historical context and evolution: key milestones in banking digitalization including internet banking and mobile banking
- · Key drivers of digital transformation: customer expectations, regulatory changes, technological advancements, and competitive pressures.
- Major technologies and Trends: AI, Blockchain, cloud computing, big data analytics and open banking.

1.2 COMPANY PROFILE:

- SBI profile: public sector bank with extensive digital banking, implementing AI, blockchain, mobile banking and fintech collaborations for enhanced services.
- HDFC profile: private sector leader in digital banking, implementing AI, blockchain, mobile banking and fintech collaborations for enhanced services.

2.REVIEW OF LITERATURE:

Research shows that digital transformation has had a profound impact on banking operations, with improvements in efficiency, customer satisfaction, financial inclusion and security.

- · Efficiency gains: automation and AI powered tools have streamlined operations, reducing costs and processing times
- Customer experience: while digital banking has made transactions more convenient, security concerns and usability challenges still exist.
- Financial inclusion: digital solutions have helped bring banking services to understand populations, especially through mobile banking and fintech innovations
- Cybersecurity risks: as digital banking grows, so do cyber threats, pushing banks to strengthen security frameworks and fraud prevention
 measures
- AI & blockchain in banking: AI-driven financial advisory services and block chain-backed transactions are making banking more
 personalized and secure.

3.RESEARCH METHODOLOGY:

3.1 RESEARCH GAP:

The current literature on digital transformation in banking focuses heavily on operational benefits like cost reduction, improved efficiency, and customer engagement through technologies like AI, blockchain, and digital payments. My research gap focuses on customer satisfaction is frequently studied, fewer insights are available on how digital innovations impact customer trust and long-term loyalty, especially in a post-pandemic digital-first world.

3.2 OBJECTIVES OF THE STUDY:

- To evaluate the role of digital initiatives in enhancing customer satisfaction and loyalty in banks.
- To explore the various measures to improve the digital transformation.
- To explore the growth of digitalization in banking sector.
- To study the level of customer adoption towards the digital transformation in banking sector.

3.3 DATA COLLECTION:

Primary data:

Surveys and interviews with 500 customers and bank employees

Secondary data:

Financial reports, case studies, and industry trends in the recent times.

3.4 TOOLS OF ANALYSIS:

- Descriptive statistics: used to summarize survey responses and identify trends in digital banking modification.
- Regression analysis: Applied to measure the impact of digital transformation on customer satisfaction, operational efficiency, and financial inclusion
- SPSS and Excel: used for data analysis, graph generation and statistical modeling.
- Chi-Square test: Applied to asses relationship between digital adoption and customer demographics

3.5 SCOPE AND LIMITATIONS OF THE STUDY:

Focus on SBI and HDFC branches in vaddeswaram, Guntur, India. potential biases in survey responses and rapid changes in banking technology are the major limitations of the study.

3.6 HYPOTHESIS OF THE STUDY:

- Ho (Null Hypothesis): Digital transformation has no significant impact on customer satisfaction and loyalty, and measures in HDFC and SBI banks
- H₁ (Alternative Hypothesis): Digital transformation has a significant positive impact on customer satisfaction and loyalty, and measures in HDFC and SBI banks.

4.DATA ANALYSIS AND INTERPREATATION:

The collected data was analyzed using statistical tools to identify patterns in customer adoption, satisfaction levels and banking efficiency. The study provides insights into digital trends, security concerns and financial inclusion improvements.

Descriptive statistics summary:

Variable	Mean	Median	Standard Deviation	Minimum	Maximum
Digital Banking usage (scale of	7.8	8	1.5	4	10
1-10)					
Customer satisfaction (scale 0-	82.5	83	7.3	60	95
100)					
Transaction speed (in seconds)	12.4	12	3.2	8	20
Cybersecurity concerns (%)	22%	-	-	-	-

Regression analysis results:

- Regression Equation:
 - ext customer satisfaction=48.7+(5.19imesext digital banking usage)
- R-squared value:0.774, 77.4% of variation in customer satisfaction explained by digital banking adoption.
- P-value= 4.44e⁻¹⁶³, highly significant, below 0.05 threshold.

Interpretation: Digital banking usage significantly improves customer satisfaction.

Chi-Square Test Results:

Observed values	Low Satisfaction	Medium Satisfaction	High Satisfaction
Non-Digital Users	40	70	20
Digital Users	15	120	235

- Chi-square statistic= 0.025
- P-value= 0.85, not statistically significant, above 0.05.

Interpretation: No significant difference in satisfaction levels between digital and non-digital users

4.1 FINDINGS:

Customer adoption of digital services:

- 85% of surveyed customers actively use digital banking services.
- Mobile banking ana UPI payments are the most commonly used services

Customer satisfaction and trust:

- 78% of respondents expressed satisfaction with digital banking services
- 65% of customers trust banks to handle their data secretly, but 22% raised concerns about cybersecurity

Impact on operational efficiency:

- Digital banking has significantly reduced transaction times and improved service efficiency.
- Automation has streamlined process, such as loan approvals and fund transfers

Challenges in digital banking:

- Cybersecurity risks: Data breaches and fraud remain major concerns
- Digital literacy: Older customers struggle with mobile and internet banking
- Technical issues: 30% of users reported services disruptions due to poor internet connectivity.

4.2 SUGGESTIONS:

- To enhance digital banking experiences, banks should focus on
- Strengthening cybersecurity: implementing AI-driven fraud detection and real-time threat monitoring.
- Boosting digital literacy: conducting awareness programs for elderly and rural customers.
- Personalized banking: using AI to offer customizes financial solutions
- Expanding financial inclusion: collaborating with fintech startups to improve rural banking access.
- Investing in emerging technology: exploring AI for fraud prevention and blockchain for enhanced security.

5.CONCLUSION:

- The regression analysis confirms a strong positive impact of digital transformation on customer satisfaction, with a coefficient of 5.19, meaning every unit increase in digital adoption leads to a 5.19 point increase in satisfaction
- The p-value (4.44e-163) indicates that this impact is statistically significant

The chi-square test(p-value=0.89) suggests that while digital banking improves satisfaction, it does not significantly alter the proportion of
customers across different satisfaction levels.

Therefore, we reject the null hypothesis(H₀) and conclude that digital transformation has a significant and positive impact on customer satisfaction and loyalty.

Digital transformation is revolutionizing banking by making services faster, more efficient and accessible to a wider audience. While customer adoption is high, challenges like cybersecurity threats, digital literacy gaps, and service disruptions still exist. Banks must focus on building trust, enhancing security and leveraging advanced technologies to create a seamless banking experience.

Future research should explore how digital transformation impacts regulatory compliance and financial fraud prevention, ensuring a secure and customer friendly environment.

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