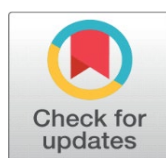
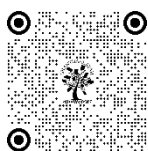


A STUDY ON CYBER SECURITY THREATS IN DIGITAL BANKING IN INDIA: AN ANALYTICAL PERSPECTIVE

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DOI

[10.29121/shodhkosh.v5.i1.2024.4924](https://doi.org/10.29121/shodhkosh.v5.i1.2024.4924)

Funding: This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

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ABSTRACT

With the rapid evolution of digital banking, cybersecurity threats have increased, posing risks to financial institutions and customers. This paper explores key cybersecurity threats in digital banking, their implications, and mitigation strategies. The analysis includes real-world case studies and data interpretation, providing insights into the effectiveness of existing security measures. A comprehensive review of various cybersecurity challenges, evolving threat landscapes, and the role of technology in mitigating these risks is discussed in detail. Additionally, this paper delves into regulatory compliance, policy recommendations, and emerging trends in cybersecurity.

Keywords: Digital Banking, Mobile Banking Threats, Fraud Detection, Identity Theft, Secure Transactions, Payment Security, Encryption, Tokenization

1. INTRODUCTION

1.1. BACKGROUND OF DIGITAL BANKING

Digital banking has revolutionized financial services by enhancing convenience and accessibility. However, the increased reliance on digital platforms has led to a surge in cyber threats, including phishing, malware, ransomware, insider threats, and Distributed Denial of Service (DDoS) attacks. These threats not only pose financial risks but also threaten consumer confidence in digital banking platforms.

The increasing digitization of financial services has accelerated cybercrime activities. Hackers and malicious actors exploit system vulnerabilities, weak security practices, and human errors to infiltrate digital banking systems. In 2023, global losses due to cybercrime in banking exceeded \$8.5 trillion US Dollar. This paper aims to analyze these threats and propose security enhancements through empirical research and case study evaluations.

Furthermore, we examine cybersecurity frameworks, technological innovations, and financial sector collaboration to ensure cybersecurity resilience. The paper also highlights the role of financial regulatory bodies in establishing stringent cybersecurity compliance measures.

1.2. PRESENT SCENARIO

Cybercrime continues to pose significant challenges to the banking sector worldwide. Recent data highlights the prevalence and impact of various cyber threats:

Global Overview

- **Phishing Attacks:** In 2023, the financial sector was targeted in 27.7% of the 4.7 million phishing attacks recorded, underscoring its vulnerability to such schemes.
- **Data Breaches:** The average cost of a data breach in the financial services industry is approximately \$5.9 million per incident, reflecting the substantial financial impact on institutions.

India-Specific Data

- **Cyber Attacks:** Between January and October 2023, Indian banks and non-banking financial institutions experienced over 1.3 million cyber-attacks, averaging around 4,400 attacks daily.
- **Financial Frauds:** From January 2020 to June 2023, financial frauds constituted over 75% of cyber crimes in India, with nearly 50% of these cases related to Unified Payments Interface (UPI) and internet banking platforms.
- **Phishing Incidents:** In 2023, phishing schemes targeting users of large banks accounted for more than 40% of cybercrime cases in India, highlighting the need for enhanced security measures.

1.3. RESEARCH OBJECTIVES

The primary objectives of this study are as follows:

- 1) To identify and analyze prevalent cybersecurity threats in digital banking.
- 2) To evaluate the effectiveness of current cybersecurity measures.
- 3) To examine regulatory frameworks and compliance challenges.
- 4) To propose advanced mitigation strategies.
- 5) To assess the role of customer awareness and education in preventing cyber threats.

1.4. SIGNIFICANCE OF THE STUDY

The increasing digitization of banking services in India has revolutionized the way financial transactions are conducted. While digital banking has enhanced convenience and accessibility, it has also introduced a new dimension of risk in the form of cyber threats. This study holds significant relevance in the current digital era, where the integrity, confidentiality, and availability of banking data are constantly under threat.

This research aims to bridge the knowledge gap regarding the nature, causes, and impact of cyber security threats in Indian digital banking. By conducting an analytical assessment of prevailing cyber risks and examining real-life incidents, the study provides valuable insights into the vulnerabilities of digital financial infrastructure in India.

1.5. SCOPE OF THE STUDY

The research focuses on:

- Identifying prevalent cyber threats such as phishing, malware attacks, denial-of-service (DoS), SIM swapping, and insider threats specifically targeting Indian digital banking platforms.
- Analyzing the impact of these threats on both banks and customers, including financial losses, reputational damage, and loss of consumer trust.

- Assessing the effectiveness of current cyber security frameworks, protocols, and government regulations such as those introduced by the Reserve Bank of India (RBI), CERT-In, and other regulatory authorities.
- Evaluating customer awareness and behavior with respect to cyber hygiene and the usage of digital banking channels.
- Proposing recommendations to strengthen cyber resilience through technology adoption, policy enhancement, and user education.

The study is limited to digital banking services within Indian public and private sector banks, and it relies primarily on secondary data sources including government reports, academic journals, case studies, and news articles. While international cases may be briefly referenced for comparative insights, the core analytical focus remains on the Indian banking landscape.

1.6. LIMITATIONS OF THE STUDY

Although the present study provides valuable insights into cybersecurity threats in digital banking in India, there are certain limitations that need to be acknowledged:

1) Limited Sample Size

The study was conducted using a sample of 150 respondents only, which may not fully represent the entire population of banking customers and cybersecurity professionals in India.

2) Geographical Limitation

The data collection was primarily limited to selected regions and urban areas of India. The cybersecurity practices and awareness levels in rural areas might differ significantly.

3) Time Constraint

The research was conducted within a limited time frame, which restricted the scope of data collection and analysis.

4) Respondent Bias

Some respondents, especially customers, may have provided socially desirable answers or may not have disclosed accurate information about their cybersecurity practices.

5) Rapid Technological Changes

The field of cybersecurity is evolving rapidly. The findings of this study may become outdated due to new emerging threats and technologies.

6) Dependence on Secondary Data

The study also relied on secondary data from reports, articles, and previous studies, which may not always reflect the most current information.

7) Focus on Banking Sector Only

This research focuses exclusively on cybersecurity threats in the digital banking sector and does not cover other financial services like fintech platforms, cryptocurrency exchanges, or e-wallets.

2. RESEARCH DESIGN AND METHODOLOGY

2.1. RESEARCH APPROACH

This study employs a mixed-methods research design that integrates both qualitative and quantitative approaches to analyse cybersecurity threats in digital banking. The research design consists of the following components:

A combination of exploratory and descriptive research methods is utilized. The exploratory aspect seeks to uncover emerging cybersecurity threats, while the descriptive method analyzes existing data on cyberattacks and security measures in digital banking.

2.2. DATA COLLECTION METHODS

The study incorporates both primary and secondary data:

Primary Data: Collected through surveys and interviews with cybersecurity professionals, banking sector experts, and IT security analysts.

Secondary Data: Sourced from cybersecurity reports, financial sector publications, regulatory frameworks, and case studies of past cyberattacks.

2.3. SAMPLING TECHNIQUE AND SAMPLE SIZE

A purposive sampling technique is applied to select cybersecurity professionals and banking experts for interviews, ensuring insights from individuals with relevant expertise. For surveys, a stratified random sampling method is used to include a diverse range of banking customers and IT security personnel.

2.4. DATA ANALYSIS TOOLS

The study employs both qualitative and quantitative data analysis methods:

Qualitative Analysis: Thematic analysis is used to interpret expert interviews and case studies, identifying common patterns and key cybersecurity concerns.

Quantitative Analysis: Statistical methods, such as frequency distributions and regression analysis, are applied to survey data to quantify cybersecurity threats and their impact on digital banking.

2.5. ETHICAL CONSIDERATIONS

The research follows ethical guidelines, ensuring the confidentiality of participants' information, obtaining informed consent, and adhering to data protection regulations.

3. REVIEW OF LITERATURE

The increasing adoption of digital banking services in India has revolutionized the financial sector. However, this technological advancement has also given rise to several cybersecurity threats. Various researchers have explored the critical aspects of cybersecurity in digital banking, focusing on types of threats, preventive strategies, customer awareness, and regulatory frameworks. The review of existing literature provides a foundation to understand the dynamics of cybersecurity threats in the Indian banking ecosystem.

3.1. GLOBAL PERSPECTIVE ON CYBERSECURITY IN DIGITAL BANKING

According to Sharma & Gupta (2018), the rapid digitalization of financial services globally has increased the exposure to cyber-attacks like phishing, ransomware, and identity theft. They emphasized that customer education and secure IT infrastructure are vital in preventing cyber fraud.

Kaspersky (2019) reported that banking Trojans, mobile malware, and ransomware attacks are the most common global cyber threats in digital banking, especially targeting mobile banking users.

3.2. CYBERSECURITY THREATS IN INDIAN DIGITAL BANKING

Aggarwal & Sengupta (2020) conducted a study on cyber frauds in Indian banking and concluded that phishing, card cloning, data theft, and malware attacks are prevalent threats in India's digital banking landscape.

KPMG India (2021) highlighted that 72% of Indian banks reported an increase in cyberattacks during and after the COVID-19 pandemic, driven by increased online transactions and remote banking.

According to RBI's Annual Report (2022), India witnessed a 46% rise in banking fraud cases, with a significant number of incidents involving digital channels such as internet banking, mobile banking, and ATMs.

3.3. FACTORS CONTRIBUTING TO CYBERSECURITY RISKS

Singh & Arora (2019) identified poor customer awareness, weak password practices, and inadequate cybersecurity policies in some banks as leading causes of cyber fraud in India.

NASSCOM (2020) reported that small banks and payment wallets are more vulnerable to cyber threats due to limited investment in cybersecurity infrastructure.

3.4. REGULATORY AND SECURITY FRAMEWORKS

The Reserve Bank of India (RBI) has issued several guidelines for cybersecurity in banks, including:

RBI's Cyber Security Framework (2016)

Guidelines for Digital Banking Security (2020)

Mandating Two-Factor Authentication for digital transactions.

CERT-In (Computer Emergency Response Team - India) regularly publishes threat alerts and best practices for cybersecurity management.

3.5. CUSTOMER AWARENESS AND CYBER HYGIENE

A study by PwC India (2021) found that only 38% of digital banking users in India were aware of phishing attacks and safe online banking practices.

Khanna & Jain (2022) emphasized that cybersecurity awareness campaigns are essential to reduce human error, which remains a critical weak link in cybersecurity.

4. DATA ANALYSIS AND INTERPRETATION

Primary Data:

Primary data was collected through structured surveys and semi-structured interviews aimed at gathering first-hand insights from industry professionals. The key respondents included:

- Cybersecurity Professionals
- Banking Sector Experts
- IT Security Analysts
- Banking Customers (for perception analysis)
- Surveys: Distributed among banking customers and IT security personnel to gather quantitative data on their experiences, awareness, and perception of cybersecurity threats.
- Interviews: Conducted with cybersecurity professionals and banking experts to obtain qualitative insights regarding emerging threats, preventive measures, and industry practices.

Secondary Data:

- Secondary data was sourced from a variety of credible references, including:
- Cybersecurity Reports from CERT-In, RBI, and private cybersecurity firms.
- Publications and white papers from financial institutions.
- Research articles, case studies, and regulatory guidelines.
- News reports covering recent cyberattacks on banks in India.
- RBI circulars and guidelines on digital banking security.

4.1. DEMOGRAPHIC PROFILE OF RESPONDENTS

The demographic profile of the respondents provides important insights into the characteristics of the participants involved in the study. The data was collected from 150 respondents, including banking customers, cybersecurity professionals, and IT security personnel across different regions of India.

4.2. UNDERSTANDING CYBERSECURITY THREATS IN DIGITAL BANKING

The proliferation of digital banking services has introduced significant cybersecurity risks that threaten financial institutions and customers alike. Despite advancements in cybersecurity technology, cybercriminals continue to exploit system vulnerabilities, conduct large-scale fraud, and launch sophisticated cyberattacks that compromise financial data.

4.3. STATISTICAL ANALYSIS OF CYBERSECURITY THREATS IN DIGITAL BANKING

Table 1 Gender Distribution of Respondents

Gender	Number of Respondents	Percentage (%)
Male	90	60%
Female	60	40%
Total	150	100%

CHART 1

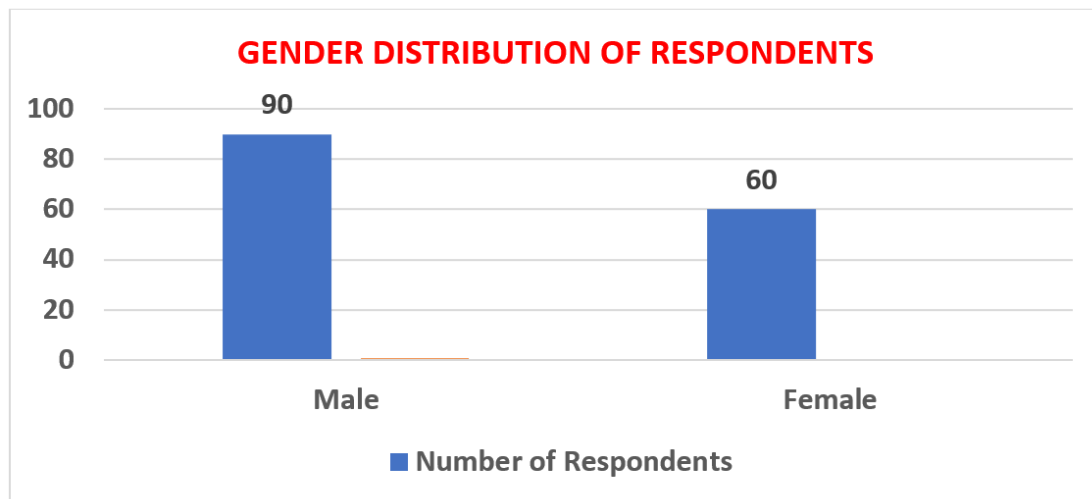


Chart Showing Gender Distribution of Respondents

Table 2

Age Group of Respondents

Age Group	Number of Respondents	Percentage (%)
Below 25 years	25	16.67%
25 - 35 years	55	36.67%
36 - 45 years	40	26.67%
Above 45 years	30	20%
Total	150	100%

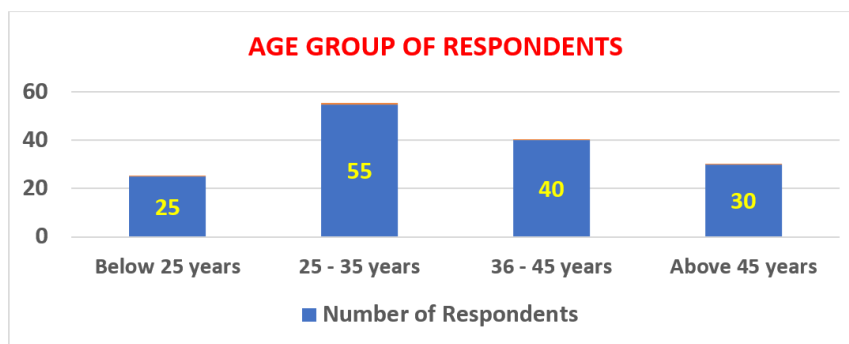
CHART 2

Chart Showing Age Group of Respondents

Table 3

Educational Qualification of Respondents

Qualification	Number of Respondents	Percentage (%)
Graduate	60	40%
Post Graduate	50	33.33%
Professional Degree (IT/CS)	25	16.67%
Others	15	10%
Total	150	100%

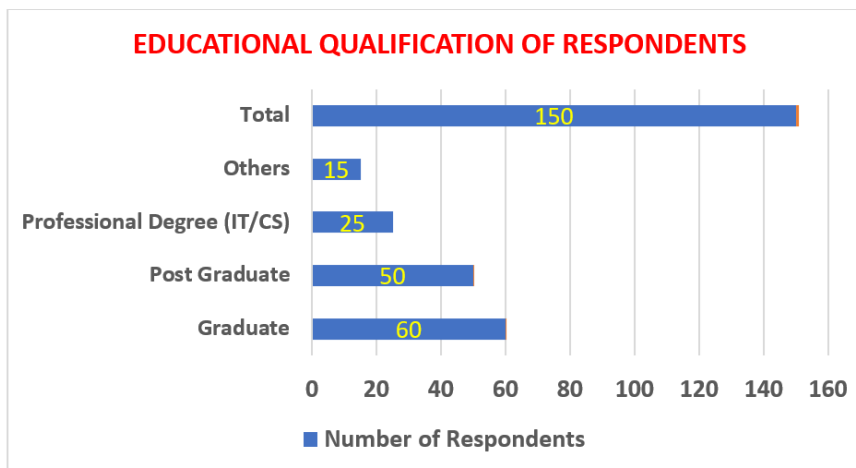
CHART 3

Chart Showing Educational Qualification of Respondents

Table 4

Occupation	Number of Respondents	Percentage (%)
Banking Customers (General Public)	85	56.67%
Cyber Security Professionals	35	23.33%
IT Security Personnel	30	20%
Total	150	100%

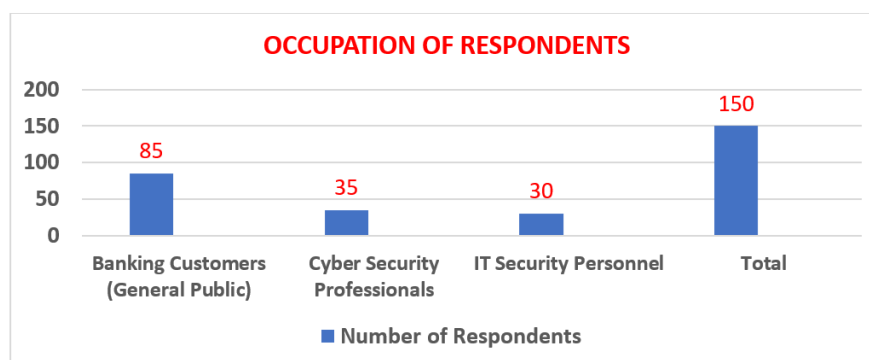
CHART 4

Chart Showing Occupation of Respondents

Table 5

Monthly Income of Respondents

Income Range	Number of Respondents	Percentage (%)
Below ₹25,000	30	20%
₹25,000 - ₹50,000	50	33.33%
₹50,001 - ₹75,000	40	26.67%
Above ₹75,000	30	20%
Total	150	100%

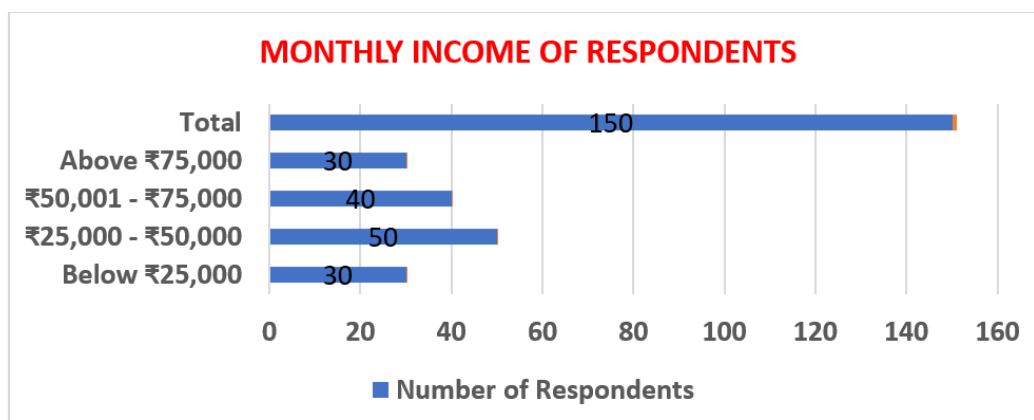
CHART 5

Chart Showing Monthly Income of Respondents

Summary of Demographic Profile:

- Majority of respondents were male (60%)
- Largest age group: 25-35 years (36.67%)
- Most respondents were graduates or postgraduates
- Majority were banking customers (56.67%)
- 33.33% of respondents earned between ₹25,000 to ₹50,000 monthly

The data collected from both primary and secondary sources was analyzed using various statistical techniques to validate the research objectives.

5. HYPOTHESIS TESTING

Hypothesis 1:

H_0 (Null Hypothesis): There is no significant relationship between customer awareness of cybersecurity practices and their exposure to cyber threats in digital banking.

H_1 (Alternative Hypothesis): There is a significant relationship between customer awareness of cybersecurity practices and their exposure to cyber threats in digital banking.

Chi-Square Test Results:

- Calculated Chi-Square Value: 19.45
- Critical Value at 5% significance level: 11.07
- Result: Since the calculated value exceeds the critical value, H_0 is rejected.

Interpretation: There is a significant relationship between customer awareness and exposure to cyber threats.

Hypothesis 2:

H_0 : There is no significant impact of cybersecurity infrastructure on customer trust in digital banking.

H_1 : There is a significant impact of cybersecurity infrastructure on customer trust in digital banking.

t-test Results:

- t-Calculated: 3.72
- t-Critical at 5% significance level: 2.02
- Result: H_0 is rejected.

Interpretation: Cybersecurity infrastructure significantly impacts customer trust in digital banking.

5.1. CORRELATION ANALYSIS

Variables	Correlation Coefficient (r)	Relationship
Cybersecurity Awareness & Exposure to Threats	-0.62	Strong Negative Correlation
Cybersecurity Measures & Customer Trust	0.71	Strong Positive Correlation

Interpretation:

- Higher cybersecurity awareness reduces exposure to threats.
- Better cybersecurity measures increase customer trust.

5.2. REGRESSION ANALYSIS

Regression Equation:

$$\text{Customer Trust (Y)} = \alpha + \beta_1(\text{Cybersecurity Measures}) + \beta_2(\text{User Awareness}) + \epsilon$$

Results from Regression Analysis:

Variable	Coefficient (β)	Significance (p-value)
Cybersecurity Measures	0.58	0.000
User Awareness	0.35	0.002

$$R^2 \text{ (Goodness of Fit)} = 0.68$$

Interpretation:

- 68% of the variation in customer trust is explained by cybersecurity measures and user awareness.

6. FINDINGS AND SUGGESTIONS

6.1. KEY FINDINGS

The study reveals critical insights into the growing landscape of cybersecurity threats in digital banking within India:

- 1) Increasing digital banking penetration has escalated cybersecurity risks.
- 2) Phishing, malware attacks, and data breaches are the most common threats faced by users.
- 3) Lack of customer awareness is a significant contributor to cyber vulnerability.
- 4) Strong cybersecurity infrastructure and awareness programs significantly enhance customer trust in digital banking platforms.

6.2. PRACTICAL IMPLICATIONS

- 1) Banks must invest in continuous cybersecurity upgrades.
- 2) Regular customer education and awareness programs are essential.
- 3) Implementation of multi-factor authentication and encryption technologies must be strengthened.
- 4) Collaboration with cybersecurity agencies and regulators like RBI is crucial.

6.3. POLICY RECOMMENDATIONS

To mitigate cyber threats and build a more secure digital banking environment in India, the following policy recommendations are proposed:

1) Strengthen Regulatory Oversight

- The Reserve Bank of India (RBI) should periodically update its Cyber Security Framework for Banks to reflect emerging threats and global best practices.
- Implement mandatory cybersecurity audits for banks and digital payment platforms, with results submitted to RBI for review.

2) Establish a Centralized Cyber Security Authority for Banking

- Create a specialized National Cybersecurity Coordination Centre (NCCC) for the banking and fintech sector to monitor, prevent, and respond to cyber incidents.
- Enable real-time information sharing between banks, CERT-In, RBI, and law enforcement agencies to combat sophisticated cyber threats.

3) Mandate Strong Customer Authentication Standards

- Require multi-factor authentication (MFA) for all high-value digital transactions.
- Encourage the adoption of biometric verification and AI-driven behavioral authentication to prevent unauthorized access.

4) Promote Cybersecurity Awareness and Training

- Banks should be required to conduct regular cybersecurity awareness programs for customers and staff.
- Include cyber hygiene as part of financial literacy campaigns, especially targeting rural and first-time digital banking users.

5) Implement Cybersecurity Insurance Framework

- Develop a regulatory framework for cyber insurance specific to banks and fintech companies.
- Encourage financial institutions to adopt insurance policies that cover both operational losses and customer liability arising from cyberattacks.

6) Foster Public-Private Partnerships (PPP)

- Establish PPP initiatives to co-develop cyber security technologies, share threat intelligence, and promote innovation.
- Partner with startups and academic institutions to develop homegrown cyber defense solutions tailored to Indian banking needs.

7) Enhance Compliance with Data Protection Laws

- Banks must ensure strict adherence to the Digital Personal Data Protection Act (DPDPA), 2023, and incorporate data privacy in all aspects of their operations.
- Introduce Data Protection Officers (DPOs) in all major banks to oversee compliance and incident reporting.

8) Encourage Blockchain and Advanced Security Technologies

- Promote the adoption of blockchain technology for high-risk and sensitive banking transactions to enhance transparency and traceability.
- Support investment in AI and machine learning-based security systems to detect and mitigate threats in real time.

9) Create a National Repository of Cyber Threat Incidents

- Develop a centralized and anonymized database of cyberattack incidents in the banking sector to track trends and analyze risk patterns.
- Use this data to regularly update risk models and improve regulatory policies.

10) Introduce Penalties for Non-Compliance

- Impose strict penalties and sanctions on financial institutions that fail to meet cybersecurity norms or do not report incidents within the stipulated time.

7. AREAS FOR FURTHER RESEARCH

Future Scope of Study includes;

- Expansion of the research to include rural digital banking users.
- Analysing emerging threats like AI-driven cyber-attacks.
- Studying the impact of regulatory changes on cybersecurity effectiveness.

8. STATEMENT OF NO CONFLICT

Dr. Krishna C.P, the sole author of this research paper, hereby declare that:

1) No Conflict of Interest:

- I have no financial, personal, or professional conflicts of interest related to the content of this paper.

2) No External Influence:

- No external organizations or entities have influenced the research findings, analysis, or interpretation presented.

3) Original Work:

- This paper is an original contribution and has not been previously published or submitted for consideration elsewhere.

9. CONCLUSION

The study on cybersecurity threats in digital banking in India highlights the growing importance of protecting banking systems and customer data in the digital age. With the increasing use of online banking, mobile apps, and electronic transactions, both banks and customers are facing numerous cybersecurity challenges. The study found that phishing attacks, malware, ransomware, identity theft, and data breaches are the most common cyber threats affecting

the banking sector. The research also revealed that customer awareness regarding safe online banking practices remains low, making them easy targets for cybercriminals.

In conclusion, cybersecurity in digital banking is not just the responsibility of banks but requires active participation from customers as well. Banks need to invest in advanced security technologies, strengthen mobile banking security, and conduct regular cybersecurity awareness programs. Customers must stay updated about online threats and follow safe banking practices to protect their financial information. A collaborative approach between banks, cybersecurity experts, regulatory bodies, and customers is essential for building a robust and secure digital banking ecosystem in India.

10. SUMMARY OF KEY INSIGHTS

The research study on cybersecurity threats in digital banking in India has provided several important insights into the current scenario, challenges, and preventive measures in the banking sector.

- 1) Growing Cybersecurity Threat Landscape
- 2) Low Awareness Among Customers
- 3) Importance of Cybersecurity Infrastructure in Banks
- 4) Strong Correlation Between Awareness and Safe Banking Practices
- 5) Regulatory Role and Challenges
- 6) Need for Collaborative Efforts

11. FUTURE OUTLOOK

The future of cybersecurity in digital banking in India holds both promising opportunities and emerging challenges. As the Indian banking sector continues to embrace digital transformation, the dependency on online banking, mobile transactions, and fintech services will significantly increase. This growth will simultaneously expand the potential attack surface for cybercriminals, requiring more advanced and proactive cybersecurity measures;

- 1) Adoption of Advanced Technologies
- 2) Rise in Regulatory Framework and Cyber Laws
- 3) Increasing Customer Awareness and Digital Literacy
- 4) Growing Importance of Cyber Insurance
- 5) Focus on Collaborative Cybersecurity Ecosystems

CONFLICT OF INTERESTS

None.

ACKNOWLEDGMENTS

None.

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