International Journal of Scientific Research in Engineering and Management (IJSREM)
Volume: 09 Issue: 04 | April - 2025 SJIF Rating: 8.586 ISSN: 2582-3930

Adoption of Neo-Banking and Digital Banking Services: A Comparative Analysis of Millennial and Gen Z

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MARCH 2025

Abstract

The rapid advancement of technology has revolutionized the financial sector, leading to the widespread adoption of neo banking and digital banking services. Unlike traditional banks, neo banks operate entirely online, eliminating the need for physical branches and offering a seamless, tech-driven banking experience. This shift is largely driven by changing consumer preferences, the increasing reliance on mobile and internet banking, and the growing demand for faster, more convenient financial services.

This report explores the key factors influencing the adoption of neo banking, including advancements in fintech innovations, artificial intelligence, and blockchain technology, which have enhanced the security, efficiency, and accessibility of digital banking. Additionally, it examines the role of regulatory frameworks, cybersecurity challenges, and user trust in shaping the future of these banking models. While digital banking offers numerous advantages such as lower operational costs, personalized financial solutions, and enhanced user experience, it also faces challenges related to data privacy**,** fraud prevention**,** and financial inclusion.

Through a detailed analysis of market trends**,** consumer behavior**,** and real-world case studies, this study provides a deeper understanding of how neo banking is disrupting traditional banking models. The findings offer valuable insights for financial institutions, policymakers, and consumers, helping them navigate the evolving digital banking landscape. As the adoption of digital banking continues to grow, this report emphasizes the importance of balancing innovation with security and regulation to ensure a sustainable and customer- centric financial ecosystem.

*Keywords**:** Neo banking, Digital banking services, Fintech innovations, Artificial intelligence, Blockchain technology, Online banking, Consumer preferences, Cybersecurity challenges, Regulatory frameworks, Financial inclusion, Mobile banking, Internet banking, Data privacy, Fraud prevention, Market trends, Consumer behavior, Financial institutions, Personalized financial solutions, Operational costs, Traditional banking models*

Introduction

The financial sector has undergone a massive transformation in recent years, largely driven by technological advancements and changing consumer expectations. Traditional banking, once characterized by long queues, paperwork, and in-person interactions, is gradually being replaced by digital-first solutions that prioritize convenience, speed, and efficiency. This shift has given rise to neo banking and digital banking services, which are redefining how individuals and businesses manage their finances.

Neo banks, unlike traditional banks, operate exclusively online, without physical branches. They leverage advanced technology such as artificial intelligence (AI**),** blockchain**,** and data analytics to offer a seamless, customer-centric banking experience. Similarly, digital banking services provided by traditional banks have evolved significantly, incorporating mobile banking, internet banking, and digital payment solutions to meet the growing demand for hassle-free financial services. The increasing adoption of smartphones, affordable internet access, and a tech-savvy customer base have further accelerated this transition.

The Rise of Digital Banking

The adoption of digital banking is not just a passing trend; it is a necessary evolution in response to modern financial needs. Consumers today expect banking services to be available at their fingertips, allowing them to transfer money, apply for loans, invest, and manage accounts without stepping into a bank branch. This demand has led to the rise of fintech companies and neo banks, which offer highly personalized financial products with minimal bureaucracy and lower operational costs.

Governments and regulatory bodies worldwide have also played a significant role in supporting digital banking adoption. Policies promoting financial inclusion, cashless transactions, and digital payment infrastructure have encouraged both customers and businesses to embrace neo banking. For instance, in many countries, open banking regulations now allow fintech firms to access customer data (with consent) to offer tailored financial services, leading to a more competitive and innovative banking ecosystem.

Key Drivers of Neo Banking and Digital Banking Adoption

Several factors have contributed to the rapid adoption of neo banking and digital banking services:

1. **Convenience and Accessibility** – Unlike traditional banks with fixed working hours, digital banking platforms operate 24/7, allowing customers to conduct transactions anytime and anywhere.
2. **Cost Efficiency** – Neo banks typically have lower overhead costs as they do not require physical branches, enabling them to offer competitive fees and better interest rates.
3. **Technological Advancements** – AI-powered chatbots, blockchain security, and big data analytics enhance customer experiences while reducing fraud risks.
4. **Changing Consumer Preferences** – Younger generations, particularly millennials and Gen Z, prefer digital-first solutions for managing their finances.
5. **Government and Regulatory Support** – Policies that encourage cashless economies, digital wallets, and open banking have significantly boosted digital banking adoption.
6. **COVID-19 Pandemic Impact** – The global pandemic accelerated the shift to digital banking as people sought contactless, remote financial solutions.

Challenges in Digital and Neo Banking Adoption

Despite its many advantages, the adoption of digital banking and neo banking is not without challenges. One of the primary concerns is cybersecurity. As financial transactions increasingly move online, cyber threats such as data breaches, phishing attacks, and identity theft have become major risks. Ensuring robust security frameworks and customer awareness is crucial to maintaining trust in digital banking platforms.

Another challenge is financial literacy. While digital banking offers convenience, many individuals, especially in developing regions, are unfamiliar with online financial management, leading to hesitation in adopting these services.

Additionally, regulatory uncertainties in some countries create hurdles for fintech companies and neo banks looking to expand.

Moreover, customer trust remains a key factor. Traditional banks have built long-standing relationships with customers, whereas neo banks, being relatively new, must establish credibility through consistent service quality, transparent policies, and strong customer support.

Future of Digital and Neo Banking

The future of digital banking and neo banking looks promising, with continued growth and innovation expected. Technologies like blockchain-based transactions, AI-driven financial advisory services, and decentralized finance (DeFi**)** are set to further revolutionize the industry. Additionally, increased partnerships between traditional banks and fintech companies are bridging the gap between conventional and digital banking, offering hybrid models that combine reliability with innovation.

As financial institutions continue to enhance their digital offerings, regulatory bodies will also refine policies to ensure data security, financial stability, and fair competition. The integration of biometric authentication, real-time fraud detection, and automated financial planning tools will further enhance user experience and security.

1. REVIEW OF LITERATURE

The banking industry has witnessed rapid transformation over the past decade, driven by digitalization, fintech innovations, and evolving consumer expectations. Traditional banks are facing increasing competition from neobanks—digital-only financial institutions that leverage technology to provide seamless banking experiences without physical branches. Millennials and Generation Z (Gen Z) are the primary drivers of this digital shift, showing distinct preferences for convenience, personalized services, and mobile-first experiences.

Numerous studies have explored the adoption of digital banking services, identifying factors such as trust, security, usability, and marketing strategies as key determinants of customer engagement. However, gaps remain in understanding how Millennials and Gen Z differ in their approach to digital banking and what strategies neobanks should employ to enhance adoption rates among these demographics. This literature review synthesizes existing research on neo banking, adoption drivers, security challenges, marketing strategies, and emerging gaps, setting the foundation for the present study.

The transition from traditional banking to digital banking has been a gradual yet transformative process. Initially, digital banking was limited to online portals and ATM services. However, with the rise of fintech companies and increasing smartphone penetration, fully digital banks—known as neobanks— have emerged as a dominant force in the financial sector.

According to Lunn (2021), the appeal of neobanks stems from their ability to provide financial services with minimal fees, enhanced convenience, and superior customer experiences. Unlike traditional banks, neobanks operate without physical branches, reducing operational costs and allowing them to pass financial benefits on to customers. Similarly, Aditya dev et al. (2023) emphasized that digital banking innovations have reshaped financial transactions, making them faster and more efficient while raising concerns about cybersecurity risks and regulatory oversight.

A study by Edwin Agwu (2012) highlighted a generational shift in banking preferences, where Millennials and Gen Z exhibit a higher propensity to adopt digital banking services compared to older generations. This research also pointed out a significant gap in understanding how cultural and economic differences influence digital banking adoption, particularly in emerging markets.

Several factors contribute to the adoption of neo banking services, including perceived ease of use, security, social influence, and financial incentives. Various studies have attempted to categorize and analyze these drivers from different perspectives.

One of the most significant drivers of neobank adoption is the seamless digital experience they provide. Fendy Tio and Sandi Sanjaya found that ease of use, user satisfaction, and curiosity played crucial roles in digital banking adoption. Unlike traditional banks, neobanks emphasize intuitive interfaces, AI-driven customer support, and real-time financial insights, making banking more accessible to tech-savvy users. Despite the convenience offered by neobanks, trust remains a significant barrier to widespread adoption. While some studies suggest that younger consumers are more open to digital-only banks, others indicate that trust in financial institutions is still largely tied to physical presence and brand reputation.

According to Saksonova and Kuzmina-Merlino (2017), concerns over data privacy, fraud risks, and regulatory uncertainty hinder the full acceptance of neo banking services. Similarly, Fortuna Tongarewa (2023) found that Gen Z's adoption of neobanks was strongly influenced by perceived value and habit, whereas trust had a weaker impact.

The role of peer influence and digital marketing in financial decision-making has been extensively studied. Unlike previous generations who relied on direct interactions with bank representatives, Millennials and Gen Z are significantly influenced by online reviews, social media recommendations, and influencer marketing.

Puneet Bhatnagar and Richa Misra (2024) explored how social influence and online ratings affected neobank adoption in India, particularly during the COVID-19 pandemic. Their findings suggested that neobanks that leveraged digital marketing and community engagement saw higher adoption rates.

Citterio et al. (2024) conducted a study on 65 neobanks and found that financial incentives such as

cashback offers, zero-fee transactions, and higher interest rates were key in attracting new customers. However, these incentives also posed long-term sustainability challenges for neobanks.

One of the most debated aspects of neo banking is security. Traditional banks have long-established security protocols and regulatory frameworks, whereas neobanks, being relatively new, face the challenge of building trust among consumers.

Digital banking platforms are vulnerable to cyber threats such as hacking, phishing, and data breaches. Clerc et al. (2020) emphasized that while neobanks offer innovative financial solutions, they must invest heavily in cybersecurity infrastructure to mitigate risks.

Regulatory compliance is another critical issue for neobanks. Unlike traditional banks, neobanks often operate in legal grey areas, leading to concerns about financial stability and consumer protection. Hopkinson et al. (2019) noted that many digital banks struggle with profitability due to regulatory constraints and high operational costs.

The ability of neobanks to attract and retain customers heavily depends on their marketing strategies. Digital engagement through mobile applications, AI-powered chatbots, and personalized financial planning tools plays a vital role in customer retention.

According to Arijit Maity and Subhendu Mukherjee (2024), digital channels such as social media, targeted advertising, and gamified experiences significantly impact user engagement. Neobanks have adopted innovative techniques such as referral programs, AI-driven insights, and financial literacy campaigns to enhance customer loyalty.

Despite their growing popularity, neobanks face challenges in maintaining long-term customer relationships. Studies have found that while customers are quick to adopt digital banks for short-term benefits, they often switch back to traditional banks for long-term financial services such as loans and investments.

Future research should focus on addressing these gaps by employing cross-generational and cross- regional comparative frameworks. Additionally, studies on the financial sustainability of neobanks will provide valuable insights into their long-term impact on the banking sector.

The literature on neo banking provides valuable insights into its adoption trends, influencing factors, and challenges. Millennials and Gen Z are reshaping banking preferences, demanding seamless digital experiences, security, and personalized financial solutions. However, trust concerns, regulatory hurdles, and customer retention challenges remain key obstacles for neobanks. Addressing these challenges through improved security measures, effective marketing strategies, and sustainable financial models will determine the future success of digital banks.

2. Objectives

1. Identify the key factors influencing the adoption of neo banking and digital banking services.

2. Examine the impact of trust, security and privacy concerns on the preference.

3. Analyze the influence of cultural and social factors on adoption decisions of Millennials and Gen Z.

3. Research Methodology

3.1 Research Design

This research adopts a quantitative approach, targeting and understanding the Adoption of neo banking and digital banking among Millennials and Gen Z. The study also utilizes a descriptive research design to identify patterns and relationships between usage of neo banking and digital banking services.

3.2 Data Collection Methods

Primary Data:

A structured online survey will serve as the primary method for data collection. The survey is distributed to millennials and gen z users to obtain quantitative data about their usage of neo banking and digital banking services and what are the reasons that they shift to these services from the traditional banking services.

3.3 Sample Design

1. **Target Population**:

The target population includes individuals who actively use neo banking and digital banking services as compare to the traditional banking services.

2. **Sampling Technique**:

Using non-probability convenience sampling technique, respondents who meet the specifications of the study population will be selected.

3. **Sample Size**:

The survey encompasses 72 respondents to achieve appropriate representation and statistical validity.

3.4 Research Instrumentation

The survey questionnaire will consist of:

1. **Demographic Information**: To get the background of the respondents, for example, age, gender, income level, and education level.

2. **Behavioral Questions**: To evaluate interactions with neo banking interface, how likely they use these services and why they use these services.

3. **Rating Scales**: Likert-scale questions will measure respondents.

Data Analysis

1. **Inferential Statistics**: Regression and correlation analysis will explore relationships between variables, such as the usage of millennials as compare to gen z.

2. **Software**: SPSS or Excel will be used to process and analyze the data.

Results and Discussion

The analysis aimed to determine the usage behavior of neo banking and digital banking services among millennials and gen Z. The sample consisted of 72 participants, providing a reliable foundation for the statistical analysis.

1. Demographic Analysis

The survey covered a diverse range of respondents:

- **Age Group:** The majority of respondents were 18-24 years old, followed by those in the 25-34 category, with fewer responses from individuals aged 35 and above.
- **Education Level:** Most participants held a postgraduate or undergraduate degree, indicating that the survey attracted a well-educated demographic.
- **Employment Status:** A mix of students, employed, unemployed, and self-employed individuals participated, ensuring a varied perspective.

2. Frequency of Digital Banking and Neo-Banking Usage

- **Regular Users:** A significant portion of the respondents use digital banking services daily or monthly, showing a high dependency on online financial services.
- **Neo-Bank Adoption:** A notable percentage of users had experience with neo-banking services (e.g., Fi Money, Razorpay X), with motivation factors including:
  - Faster transactions
  - Better user experience
  - Ease of use
  - Security and privacy concerns
- **Reluctance to Use Neo-Banking:** Some respondents hesitated due to a lack of trust, security concerns, or technical glitches.

3. Factors Influencing the Adoption of Neo-Banking

Using factor analysis in SPSS, the following key determinants were identified for adopting digital and neo banking services.

1. **Security and Privacy:** Many respondents cited concerns about fraud and cybersecurity as a major consideration.
2. **Ease of Use & Digital Features:** Advanced features such as seamless transactions, investment options, and AI-driven financial advice were attractive to users.
3. **Trust and Reliability:** Some respondents still preferred traditional banks due to concerns about the reliability of neo-banking platforms.
4. **Customer Support:** Complaints about technical glitches and lack of customer service were frequently mentioned as barriers to adoption.

4. Confidence in Security Measures

- On a 5-point Likert scale, where 1 indicates low confidence and 5 indicates high confidence, respondents were asked to rate their trust in neo-banking security measures.
  - The average confidence rating was 3.5, suggesting moderate trust in security.
  - Users who had faced fraud-related issues showed lower confidence levels.

5. Challenges Faced in Digital and Neo-Banking

Respondents reported several challenges, including:

- **Technical Issues:** Glitches in transactions, difficulty in linking bank accounts, and failed transactions were common complaints.
- **Lack of Awareness:** Many users were unaware of neo-banking benefits and features.
- **Cybersecurity Concerns:** Some respondents expressed fears of hacking, fraud, and data breaches.

- **Limited Services Compared to Traditional Banks:** Some felt that neo-banks lacked certain essential banking services, such as cash deposits and physical branch support.

6. Future Prospects of Neo-Banking

- When asked about the future of neo-banking, responses varied:
  - Some believed neo-banking would completely replace traditional banks due to technological advancements.
  - Others felt it would coexist with traditional banks, serving a niche market.
  - A minority thought neo-banking was a trend that would fade over time.

Scope and Limitations

1. **Scope**:

The topic focuses exclusively on the influence of media marketing on the behavior of consumers, emphasizing quantitative measurement.

2. **Limitations**:
   - Limited to self-reported data, which may involve biases.
   - Findings may not be fully generalizable to all demographic groups or geographic regions.

Ethical Considerations

1. Participation will be voluntary, and informed consent will be obtained.
2. Data confidentiality and respondent anonymity will be maintained.
3. The information collected will be used in a research capacity only.

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