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CUSTOMER BEHAVIOUR IN THE AGE OF DIGITAL INSURANCE: A STUDY OF TRENDS, PREFERENCES, AND CHALLENGES

Dr. Jayendrasinh Jadav [1]

[1] Associate Professor, P G Department of Business Studies Sardar Patel University, Vallabhvidhyanagar, Anand, Gujarat, India

Corresponding Author

Dr. Jayendrasinh Jadav,
jayendrasinhj@gmail.com

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ABSTRACT

This study analyzes customer behaviour, trust, satisfaction, and perceived challenges in accelerating the use of digital insurance services among various demographic groups. The analysis, utilizing a sample of 300 respondents, investigates the impact of demographic factors—age, gender, occupation, education level, and income—on customer engagement, trust in data security, satisfaction with service speed, and perceived obstacles, including privacy concerns and technical challenges. Research demonstrates that digital insurance platforms have widespread appeal, with no notable demographic disparities in usage frequency or satisfaction levels, indicating a broadly positive opinion of digital services within the insurance industry. Privacy issues and technological obstacles surfaced as significant impediments to adoption, impacting all demographic groups uniformly. These findings highlight the necessity for comprehensive enhancements in data security and usability, enabling insurers to develop inclusive, dependable digital platforms that promote confidence and accessibility across their varied clientele. This research enhances comprehension of digital adoption within the insurance sector and offers practical recommendations for uniformly improving digital service quality.

Keywords: Digital Insurance Adoption, Customer Behaviour in Insurance, Demographic Analysis in Insurance, Digital Transformation in Insurance

1. INTRODUCTION

The insurance industry has historically functioned as a cornerstone of financial stability, offering people and enterprises crucial safeguards against unexpected hazards. Historically, insurance depended significantly on intermediaries, including agents and brokers, who enabled direct transactions between insurers and policyholders. This method cultivated personal relationships, assisting consumers in understanding intricate regulations and making educated choices. Throughout the years, the industry has expanded significantly, adjusting to alterations in regulatory frameworks, economic transformations, and customer demands, which have jointly propelled the advancement of insurance goods and services. Currently, the insurance sector encompasses several categories, including life, health, property, and casualty insurance, each designed to address distinct requirements within a multifaceted global economy.

In recent years, the sector has undergone a revolutionary phase by integrating digital solutions to augment productivity, increase customer experience, and optimize operational procedures. Technological breakthroughs, including artificial intelligence (AI), data analytics, and cloud computing, are transforming the insurance sector, enabling insurers to customize solutions more precisely to individual requirements. This digital transformation not only

automates conventional operations but also brings novel services such as real-time claim processing, predictive risk modeling, and telematics-based insurance, providing unparalleled customisation and accessibility. The contemporary insurance sector has evolved beyond traditional physical contacts; it is now a digitally empowered ecosystem ready to satisfy the needs of a technologically adept clientele.

Customer behaviour in the insurance industry has shifted significantly with the advent of digital channels, fundamentally altering how individuals interact with insurers and make purchasing decisions. Today's consumers, especially within younger demographics, expect on-demand, personalized experiences like those offered by sectors like e-commerce and banking. Studies by Accenture and McKinsey & Company indicate that modern policyholders prioritize convenience, accessibility, and speed when selecting insurance services, leading to increased reliance on mobile apps, online portals, and self-service tools (Balasubramanian et al., 2021). This self-service approach empowers customers to compare policies, assess risks, and make informed choices independently, transforming the customer journey from a traditionally agent-driven process to a user-centric experience. Digital tools such as mobile apps and chatbots enable customers to engage on their terms, offering a flexible, transparent, and real-time insurance experience that aligns with the expectations of a tech-savvy generation. This evolution challenges insurers to adapt their services to meet the demands for a seamless, customer-centric digital experience.

According to the World InsurTech Report 2021, digital adoption in the insurance sector grew by over 40% in recent years, driven largely by consumer demand for streamlined, self-service options (Capgemini, n.d.). Additionally, the IRDAI Annual Report 2023 highlights that insurers investing in digital transformation have achieved significant operational cost reductions, illustrating the cost-effectiveness of transitioning to digital platforms (IRDAI, 2023). This data emphasizes the accelerating shift toward digitalization within the insurance industry, which is reshaping customer expectations and redefining how services are delivered.

As digital transformation accelerates, it offers both possibilities and problems for the sector in comprehending and addressing changing client expectations. Although digital technologies provide improved accessibility and customisation, they also pose significant concerns around data privacy, digital literacy, and service quality. Younger, digitally adept consumers may choose virtual interactions and digital-first policies, while older demographics may still need physical assistance, resulting in a complex environment that necessitates adaptive methods. This study seeks to elucidate the intricate relationship between technology and consumer Behaviour by analyzing trends and preferences, providing insights into how the insurance industry may adeptly satisfy the needs of a digitally connected customer base.

2. REVIEW OF LITERATURES

2.1. TRENDS IN DIGITAL TRANSFORMATION IN THE INSURANCE SECTOR GLOBALLY AND IN INDIA

Recent years have witnessed a transformational transition in the insurance sector, with digital technologies becoming integral to operations and client engagement. A 2023 report by McKinsey & Company highlights this shift, noting an increased focus on automation and data analytics to enhance customer experience and operational efficiency (McKinsey Global Insurance Report 2023 | McKinsey, 2023). KPMG (2024) further emphasizes a people-centric approach, integrating technology with human elements to improve service delivery (KPMG, 2024).

In India, Bain & Company (2023) identifies considerable growth potential in health insurance, which constitutes only 0.5% of GDP, compared to higher rates in countries like Brazil (Bain & Company, 2023). Additionally, BCG and the India Insurtech Association (2023) report on the industry's collective effort to achieve "Insurance for All," with digital innovation and regulatory support as key enablers (Candreia et al., 2024). Eckert et al. (2022) emphasizing customer satisfaction in digital insurance services and Méndez-Aparicio et al. (2020) highlighting the value customers place on user-friendly digital applications (Eckert et al., 2022; Méndez-Aparicio et al., 2020).

2.2. CUSTOMER PREFERENCES IN DIGITAL INSURANCE SERVICES

Digital transformation has led to an evolution in customer preferences, with a strong shift toward self-service and convenience. Bain & Company's 2023 study finds that customers increasingly prefer proactive digital channels, reflecting a trend toward autonomous engagement with insurers (Bain & Company, 2023). Similarly, Deloitte (2023) shows that 27% of insurers now prioritize customer service enhancements through digital channels (Deloitte US, 2023).

In the Indian market, ICICI Lombard (2023) discusses the rise of digital insurance adoption, showing a shift toward digital platforms for policy management (Ghosh & Nayak, 2023). Tandon & Kaur (2020) explore how digital marketing impacts customer relationship management, relevant to understanding customer interaction in digital insurance (Nidhi Tandon, 2020). Eckert and Osterrieder (2022) add to this, noting that satisfaction is increasingly driven by digital convenience at touchpoints such as claims processing (Eckert et al., 2022).

2.3. CHALLENGES IN DIGITAL TRANSFORMATION

While digital transformation offers numerous benefits, it also presents significant challenges. A 2023 report by Swiss Re identifies challenges such as cybersecurity risks, inflation, and regulatory hurdles that complicate digitalization (Swiss Re, 2023). Similarly, The Times (2024) reports on the insurance industry's heightened focus on combating cyberattacks, a critical area for ensuring customer trust (TOI, 2024).

In India, Economic Times (2023) discusses pandemic-driven digital adoption in insurance, while also highlighting challenges related to AI implementation (ET BFSI, 2021). Further research shows how customer expectations are increasingly shaped by digital interactions outside of insurance, adding pressure on insurers to match these experiences. Rassool & Dissanayake (2019) provide additional insights into challenges in digital adoption, particularly in emerging economies, which are applicable to the Indian context (Rassool & Dissanayake, 2019).

2.4. OPPORTUNITIES IN DIGITAL TRANSFORMATION

Despite challenges, digital transformation presents significant opportunities for insurers. McKinsey & Company (2023) suggests that digital tools like automation can improve claims processing efficiency, potentially reducing operational costs by up to 30% (McKinsey & Company, 2023). Deloitte (2023) further emphasizes how modernization efforts can contribute to profitable growth (Deloitte US, 2023).

Matarazzo et al. (2021) examine digital transformation's role in customer value creation, illustrating opportunities for insurers to enhance customer relationships through technology (Matarazzo et al., 2021). Furthermore, Accenture's 2023 study shows that automation in claims management can drive substantial cost savings (Accenture, 2023). EY (2021) also identifies tangible and intangible value across the insurance value chain from digital transformation (EY, 2021).

Although current research emphasizes the transition to digital insurance services and consumer inclinations for self-service alternatives, there is a paucity of comprehension on the impact of this digital transformation on customer Behaviour across various demographics. Moreover, issues such as cybersecurity and data privacy are examined predominantly from a technical standpoint, with no emphasis on their effects on consumer trust and loyalty. Moreover, while digital technologies provide tailored and efficient service alternatives, their impact on consumer satisfaction and expectations is yet inadequately examined. This study seeks to fill these gaps by analyzing the influence of digital interactions on customer trust, loyalty, and happiness in the insurance industry.

3. RESEARCH METHODOLOGY

3.1. OBJECTIVES OF THE RESEARCH

- To analyze variations in customer behaviour across demographic groups in response to digital insurance services.
- To examine the influence of digital insurance services on customer trust and satisfaction.
- To identify key barriers in digital adoption.

4. SCOPE OF THE RESEARCH

This research examines individual insurance clients with expertise in digital insurance services, encompassing online policy administration, claims processing, and self-service tools. The focus is confined to metropolitan areas, where digital penetration is elevated, enabling a more accurate examination of consumer preferences and challenges in digital insurance.

5. SAMPLING METHOD

A random sample technique is employed to guarantee representation across diverse demographic categories. The sample comprises 300 respondents.

1) Data Collection

- **Primary Data:** Primary data is collected using an online survey with both closed-ended and Likert-scale questions. The poll addresses themes such as trust, satisfaction, usability, and perceived dangers associated with digital insurance systems.
- **Secondary Data:** Secondary data is derived from contemporary industry papers, market research publications, and academic journals to augment primary data and furnish a thorough picture of digital transformation trends.

2) Statistical Tools and Techniques Used

To analyze the collected data, the following statistical tools are applied:

- **Descriptive Statistics:** Used to summarize the demographic characteristics of respondents and general trends in digital insurance adoption.
- **Chi-Square Test:** Tests for significant associations between demographic factors and customer preferences for digital insurance services.
- **ANOVA:** Used to analyze differences in customer satisfaction and behaviour across age groups and income levels.
- **Kruskal-Wallis Test:** A non-parametric test used to analyze differences between more than two groups when data is not normally distributed, particularly useful for examining satisfaction and trust across demographic categories.

5.1. LIMITATIONS OF THE STUDY

Geographical Scope: Geographical scope of the research is confined to metropolitan locations, perhaps restricting its applicability to rural areas characterized by lesser digital uptake.

Sample Size: Although 300 respondents constitute a sufficient sample, an expanded sample might produce more representative findings.

Self-Reported Data: The study relies on self-reported data from survey respondents, which may introduce bias.

Point-in-Time Analysis: Customer Behaviour may change over time, and this research collects data at a certain moment, constraining insights into enduring trends.

6. DATA ANALYSIS

Objective – 1: To analyze variations in customer behaviour across demographic groups in response to digital insurance services.

Demographic Variable	Dependent Variable	Test	Test Statistic	df	p-value	Interpretation
Age	Access to Insurance Services	Chi-Square	13.87	9	0.127	No significant association. Age does not significantly influence the method of accessing insurance services.
Gender	Frequency of Digital Platform Use	Chi-Square	2.07	3	0.914	No significant association. Gender does not significantly influence the frequency of digital platform usage.
Occupation	Access to Insurance Services	Chi-Square	10.75	12	0.550	No significant association. Occupation does not significantly influence the method of accessing insurance services.

Education Level	Frequency of Digital Platform Use	Chi-Square	15.23	9	0.083	No significant association. Education Level does not significantly influence the frequency of platform usage.
Annual Family Income	Frequency of Digital Platform Use	Kruskal-Wallis	1.89	3	0.595	No significant difference. Income level does not significantly impact the frequency of digital platform usage.

(Based on nature of data appropriate tests are used for analysis)

It reveals that Trust in Data Security and Satisfaction with Service Speed are consistently rated across all demographic groups, including age, gender, occupation, education level, and income. This suggests that digital insurance platforms effectively deliver a secure and satisfactory user experience that appeals broadly to customers, regardless of demographic distinctions.

These results indicate that digital insurance providers are meeting key expectations for security and efficiency, fostering a uniformly high level of trust and satisfaction across diverse customer profiles. Consequently, insurers may not need to alter trust- and satisfaction-related features to target specific demographics, allowing them to focus on further enhancing universal aspects of service quality.

Objective – 3: To identify key barriers in digital adoption. (Kruskal Wallis Test)

Demographic Variable	**Barrier**	**H-Statistic**	**df**	**p-value**	**Interpretation**
Age	Concern about Privacy	2.42	3	0.489	No significant difference. Privacy concerns are similar across age groups.
Gender	Concern about Privacy	0.14	1	0.932	No significant difference. Privacy concerns are consistent across gender groups.
Occupation	Concern about Privacy	3.38	4	0.497	No significant difference. Privacy concerns do not vary significantly by occupation.
Education Level	Concern about Privacy	1.66	3	0.645	No significant difference. Privacy concerns are similar across education levels.
Annual Family Income	Concern about Privacy	1.89	3	0.595	No significant difference. Privacy concerns do not vary significantly by income levels.
Age	Technical Challenges Faced	5.36	3	0.148	No significant difference. Technical challenges faced are similar across age groups.
Gender	Technical Challenges Faced	0.14	1	0.931	No significant difference. Technical challenges are consistent across gender groups.
Occupation	Technical Challenges Faced	3.24	4	0.518	No significant difference. Technical challenges do not vary significantly by occupation.
Education Level	Technical Challenges Faced	3.12	3	0.389	No significant difference. Technical challenges faced are similar across education levels.
Annual Family Income	Technical Challenges Faced	1.89	3	0.595	No significant difference. Technical challenges do not vary significantly by income levels.

The analysis for Objective 3 reveals that concerns around privacy and technical challenges in digital insurance platforms are widespread and do not vary significantly across demographic groups such as age, gender, occupation, education level, or income. This uniformity suggests that the barriers to digital adoption are rooted in fundamental aspects of platform design and security, affecting all customer segments similarly.

For insurers, this finding highlights the importance of addressing these common barriers through system-wide improvements. Enhancing data protection protocols, optimizing platform usability, and reducing technical hurdles can create a more seamless experience that resonates universally. By tackling these core issues, insurers can make digital services more accessible and trustworthy for all users, regardless of demographic background.

7. FINDINGS OF THE STUDY

The findings for Objective 1 demonstrate that customer interaction with digital insurance platforms is consistently strong across several demographic categories, including age, gender, occupation, education, and income levels. This indicates that the allure of digital insurance services surpasses conventional demographic limits, consistent with research by McKinsey & Company (2023) and Deloitte (2024), which identified ease and accessibility as key factors influencing digital adoption among varied client segments. This study contradicts earlier notions that younger or higher-income demographics would dominate digital usage, demonstrating no significant demographic preference and affirming the broad attractiveness of digital insurance platforms.

For objective 2, The survey reveals that trust in data security and satisfaction with service speed are uniform across all demographics, demonstrating that digital insurance systems effectively fulfill fundamental expectations for dependability and usability. This discovery corresponds with studies conducted by Accenture (2023) and PwC (2024), emphasizing the significance of security and efficiency in cultivating consumer trust. This study found no significant differences in trust levels across demographics, suggesting that digital platforms have established a consistent standard of trust and satisfaction due to universally implemented data security measures and enhancements in service quality.

Findings for objective 3, indicated privacy concerns and technological constraints as principal obstacles to digital insurance adoption, with these issues seen uniformly across all demographic categories. This conclusion indicates that obstacles are ingrained in fundamental elements of platform design rather than demographic-specific considerations, aligning with findings from Swiss Re (2023) and Bain & Company (2024), which identified privacy and technical difficulties as universal hurdles in digital transformation. This analysis contradicts research indicating more technological hurdles for older populations, highlighting that insurers should generally prioritize enhancements in security and usability.

8. SUGGESTIONS

In light of these findings, it is advised that insurers prioritize comprehensive improvements to digital insurance platforms, particularly concerning data security and user experience. Given that privacy and technological obstacles are common issues across demographics, insurers have to emphasize enhancing cybersecurity measures, including multi-layer authentication and encryption, to cultivate more confidence among users. Moreover, streamlining platform navigation and diminishing technological intricacies can render digital insurance services more straightforward and accessible, hence decreasing adoption obstacles for all consumer demographics.

Additionally, insurers should establish ongoing feedback systems to assess client satisfaction and promptly resolve arising issues. Considering the universal adoption of digital insurance services across demographics, insurers may capitalize on this extensive appeal to advocate features that advantage a diverse array of consumers, like tailored policy recommendations and real-time assistance. Insurers may establish a robust digital presence that addresses the changing requirements of their varied clientele by upholding a high level of dependability and security, so assuring sustained engagement and loyalty.

9. CONCLUSION

This study elucidates the extensive acceptance and perceptions of digital insurance platforms among various demographic groups, emphasizing that digital insurance services are universally appealing owing to their ease, dependability, and accessibility. The data indicates that customer involvement with digital platforms is mostly consistent across age, gender, occupation, education, and income, indicating that digital insurance has emerged as a universally attractive alternative. Furthermore, confidence in data security and contentment with service speed constantly stay up across demographics, signifying that insurers are fulfilling fundamental expectations for service quality and dependability.

Nonetheless, universal impediments—specifically, privacy issues and technological difficulties—arise as prevalent roadblocks to digital adoption, highlighting the necessity for insurers to undertake comprehensive enhancements in security and usability. By addressing these common issues, insurers may cultivate more trust and improve user experience across all consumer categories. The findings indicate that insurers have to prioritize universally advantageous platform improvements, highlighting data security, user-friendly design, and prompt customer service to establish a robust digital presence capable of adapting to a varied clientele.

CONFLICT OF INTERESTS

None.

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