

Original Article

AI and the Personalization-Privacy Paradox: Balancing Customized Marketing with Consumer Data Protection

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Abstract - This study explores the dual challenge of leveraging Artificial Intelligence (AI) to personalize marketing efforts while safeguarding consumer data privacy. The aim is to understand the balance between effective customized marketing and robust data protection practices. Employing a mixed-method approach, the research combines quantitative surveys to gather consumer perspectives on privacy and personalization with qualitative interviews of marketing professionals to understand industry practices and challenges. Data analysis involves statistical techniques for the survey data and thematic analysis for the interview data. The results show a significant conflict between what customers want—customized experiences—and what they worry about—data privacy. Consumers appreciate the convenience and relevance of customized marketing but express apprehension about data misuse and the need for more transparency. On the industry side, marketers acknowledge the importance of data protection but need help implementing effective privacy measures without compromising personalization quality. The study highlights the necessity for a balanced approach that addresses consumer privacy concerns while maintaining the benefits of personalized marketing. Recommendations include adopting transparent data practices, enhancing consumer control over personal data, and developing regulatory frameworks supporting privacy and innovation.

Keywords - AI, Consumer data protection, Customized marketing, Personalization, Privacy.

1. Introduction

The increasing importance of artificial intelligence has played a significant role in changing the marketing ways consumers experience brands. In other words, it helps intelligently personalize the marketing messages, select the products, manage consumers' interactions with them, and improve the effectiveness of marketing campaigns. However, the data that enable these techniques to occur also present multiple areas for improvement regarding privacy. On the other hand, customers embrace personalization while being concerned about how their information is gathered, processed, and stored. This conflict between consumers seeking more customized services while demanding their information not be shared is referred to as the personalization-privacy paradox, which is a key consideration for marketers, policymakers, and technocrats. Personalization powered by AI technology entails gathering extensive consumer data, including web browsing patterns, consumers' buying trends, and consumer data such as age and gender. Though such data can help companies provide better, local, and personalized engagements, it carries latent prospects of privacy infringements, data leaks, and misuse. This divergence has been further skewed in the modern world, especially with the consumer push for data privacy. This has resulted in rigid regulation standards such as the GDPR in Europe and the CCPA in the United States. These laws are

supposed to help people better control their data, at the same time, with very rigorous restrictions on how firms can utilize and share personal data. However, the problem of the balance between creating personalized advertisements and protecting consumers' data persists. However, there needs to be more literature that provides a horizon given the research on AI in marketing and the increasing research on privacy considerations, which looks into various competing demands. It is crucial to fill this gap and find out how firms can achieve this. A lot of the work done in the area has been targeted at exploring just the technical aspects of AI personalization from the technologies used or the legal/ethical issues of data protection. However, the literature is scarce regarding how organizations can leverage and integrate AI techniques into personalization applications, respecting data privacy regulations and consumers' trust. Also, consumers' preference to share data with firms is sometimes ignored. However, the choice could vary from one cultural context to another depending on the benefits the consumers are likely to realize or their level of trust in the specific firm. This gap suggests a need for more holistic research that focuses on the combination of marketing, technological, and legal perspectives of the personalization-privacy paradox. The current literature also needs to include more research regarding the novel privacy-preserving AI technologies that



have the potential for sustained effects on client behavior. In the case of longer treatment-time tasks, such as differential privacy and federated learning, there needs to be more insight into how these technologies affect the consumers' perception of personalized marketing. There is also a need for panel studies that analyze the dynamic of consumer trust over time, where current technology advancements and advancements in data collection techniques are evident. Therefore, This research gap opens up a unique avenue for investigating extremely feasible ways through which AI could be used to deliver targeted marketing strategies that are relevant and compliant with consumer data privacy while still helping organizations create long-term bonds with consumers. Given these difficulties, this paper aims to fill the gap by summarizing the marketing literature concerning AI: its theoretical background, privacy issues, and the available approaches that can be used to optimize the tradeoff between marketing benefits and privacy risks. It will also reveal some critical areas that require more focus to enhance AI-based personalization solutions' effectiveness, specificity, and fairness in a changing landscape of consumers' expectations and regulations.



Fig. 1 Privacy paradox

Table 1. Contrasting aspects of personalization and privacy concerns in marketing

Aspect	Personalization	Privacy Concerns
Consumer Perspective	High relevance and convenience	Fear of data misuse and lack of transparency
Marketer's Challenge	Increased engagement and conversion	Compliance with data protection regulations
Regulatory Impact	Enhanced customer experience	Stricter data handling and storage practices

2. Literature Review

2.1. Introduction

Through the application of artificial intelligence, the marketing frontiers of the digital world have been broadened by providing consumers with experiences that are suited to their specific needs. However, the use of personal data in such a manner raises concerns over privacy, which in turn results in the promotion of what we refer to as the "personalization-privacy paradox." As a result, the marketing scholarship of the organizations should strive to achieve a balance between the two aspects of marketing and consumer privacy.

2.2. Comparison with Existing Research

Suppose this analysis of the personalization-privacy paradox in AI-driven marketing is compared with relevant literature. In that case, the authors may have addressed this problem from various perspectives, including the consumer behavior perspective, the perspective of privacy theories, and the perspective of AI ethics. Mandatory, existing published work argues how businesses engage with the dichotomy of privacy and personalization. Still, more information is needed regarding practical implementation and changing customer behavior. Prior works, including Awad & Krishnan (2006), stress that a theory called privacy calculus postulates that consumers balance the value they gain from disclosing their

information relative to the risks they see. It is essential to grasp why consumers willingly provide their data to companies for customized services while retaining privacy apprehensions. Nevertheless, more recent works, including the one of Sutanto et al. (2013), explain that the context in the use of data is more important than previously assumed. They state that consumer distrust mainly stems from when data moves in a direction the consumer is uncomfortable with, such as when data gathered under certain conditions is reused for a different purpose. In doing so, this nuance alters the existing personalization-privacy paradox, pointing to the fact that not only the volume of data collected plays a decisive role in the level of consumer trust but also the context of its use. Similarly, Zhang and Sundar (2019) have stressed the availability of consumer willingness to share data with specific reference to trust. Based on their study, control and transparency are critical concepts for consumers willing to share more information with a brand if they have faith in the brand and that it is behaving ethically regarding their data. This extends prior research by Malhotra et al. (2004), who has focused on the trust-risk framework. Still, Zhang and Sundar extend the perspective from the impact of AI technologies, which complicate the data-processing process and are difficult for consumers to decipher. On the other hand, Hosanagar and Nasser (2020) indicate that due to bounded rationality, consumer decisions to share data

are impeded since consumers are ignorant of the consequences of sharing their data. This line of thought builds up on prior works by including the unique complications that arise with AI and where data is utilized in manners that could be more perceptible and understandable by the end user. Previous research, including Li (2021), shows a marked increase in customer satisfaction due to personalization based on artificial intelligence algorithms. These studies can be used to back the theory that personalization increases the value of consumer experiences by targeting them well. They could not agree more with Shankar (2022), who noted the benefits of AI for business entities. However, in contrast to the previous studies, Li emphasizes that personalization differs for all consumers since people with certain concerns about data privacy can effectively feel excluded by mass collection. This difference illustrates how the dynamics of the personalization-privacy tradeoff have continued to change, especially in the era of Artificial Intelligence, where, despite advancements in personalization strategies, privacy considerations continue to be a consideration that deters a significant number of consumers.

Furthermore, while the initial investigation of the topic leaned toward investigating privacy or personalization, yet separate from one another, the current research examines their tradeoff. For example, Wirtz et al. (2023) have suggested that privacy by design should be adopted in AI marketing systems. This contrasts with previous literature, which mainly looked at privacy and personalization as two warring forces. Further, Wirtz et al. claim that it is possible to personalize services and protect consumers' data through methods like differential privacy or federated learning. Such technologies make it possible to process data using analytical tools without violating personal privacy; it is a liberal clue. Lastly, the existing research offers valuable information, yet it needs to provide solution-oriented ideas for how firms can apply these insights on a large scale. Even though the topic is relatively well-developed, most research is theoretical. It is based on the models and case studies or the analysis of the short-term effects of balancing personalization with privacy. Further, the dynamic environment of data protection regulation and AI technology implies that more studies are required to identify the possible roles of future advancements, like privacy-preserving AI, in changing the balance of the tradeoff knowledge.

2.3. AI in Marketing and Personalization

AI's immense role in marketing is connected with the idea of data-driven marketing, in which firms can adapt their initiatives to support consumers' behaviors better and needs in light of big data. Nowadays, AI technologies such as machine learning and natural language processing data sets are processed in real-time, where marketers can deliver unique target customer messages and promotional offers (Shankar, 2022). This personalization is based on consumer behavior theories, which presuppose personalized communication will

increase client satisfaction and engagement as interaction is personalized and more relevant to unique clients (Li, 2021). AI success in personalization can also be explained by the resource-based view of the firm since data were considered a valuable resource that forms a competitive advantage when adequately utilized (Wirtz et al., 2023).

2.4. Privacy Theories

There are several theories based on which consumers' concerns about data collection on marketing using AI can be explained. According to the privacy calculus theory, the decision to disclose or provide sensitive information is balanced against the advantages to be gained and the disadvantages or negative impact likely to result from disclosure (Dinev & Hart, 2006). Regarding AI personalization, consumers are willing to offer their information in case the utility of the provided solutions and the outcomes of the data usage, such as better recommendations or services, will benefit them much more than the chances of privacy violation. However, when AI systems gather and identify more personal information, issues of how the information collected is used or distributed may alter this balance. Awad and Krishnan's (2020) studies show that consumer information-sharing decisions are often influenced by questions regarding companies' credibility and perceived risks and gains, even in the case of personalization. The second approach to privacy theories is contextual integrity, which stresses that privacy issues emerge when some information is transferred contrary to normal in a given context (Nissenbaum, 2010). In marketing, consumers may be OK with collecting data for a particular purpose, such as enhancing customer relationships. However, they will not agree to collect their data for other purposes, such as selling it to third parties for promotions. AI clouds this further since, in addition to analyzing and making Inferences about a consumer's information, individuals have limited control over how this information will be used (Binns et al., 2018).

2.5. The Personalization-Privacy Paradox

It can be detailed as the Personalization-Privacy Paradox, where the demand for the personalization of services conflicts with the need for privacy. This paradox is based on a conflict in consumer preferences. On the one hand, there are sheds where many consumers embraced the idea of personalized communication with brands and organizations they interact with daily. On the other hand, they are becoming increasingly more sensitive about using their personal information (Sutanto et al., 2013). The paradox can be best explained in the light of trust theory, which stipulates that trust is a vital factor in determining how consumers are willing to offer their personal information for data collection. From the perspective of Zhang and Sundar (2019), three significant factors influence consumers' willingness to share their data with the collecting company; this entails trusting the company that is collecting the data, believing in the firm's data protection measures, and considering the firm as being transparent in all of its

communication processes. Some recent works, for instance, Hosanagar and Nasser (2020), also acknowledge that consumers' decisions regarding personalization-privacy are rational though bounded. Lack of information openness where consumers need adequate information that would enable them to make the right decisions regarding their data due to asymmetrical information. This is in part consistent with behavioral economic theories arguing that human beings cannot always make rational decisions because of cognitive errors such as optimism bias, where people believe they are immune to data breaches, and the paradox of choice, where users are paralyzed with choices of the most appropriate privacy settings.

2.6. The Benefits of Personalized Marketing

Personalization of marketing has been one of the solutions that have been embraced widely across the globe due to its effectiveness on consumer engagement and business performance. Through AI technologies, businesses can conduct analyses of consumer behavior, needs, and even their demographic characteristics to be able to make recommendations, get customers' attention, and even communicate with them. Prior research has indicated that using guest information in marketing results in higher conversion rates, better customer satisfaction, and improved brand recognition (Smith, 2019). For instance, using recommendation systems through machine learning by such organizations as Amazon and Netflix has set a standard for shaping clients' buying behaviors.

2.7. Consumer Privacy Concerns

The collection and use of personal data for marketing remains a significant concern about privacy. As consumers have become more conscious of how their data is harvested and collected and might need to be more effectively managed, they need more confidence in how corporations deal with their data (Redman, 2020). Instances of privacy violation and data misuse, like the Cambridge Analytica case, have escalated these concerns, hence demanding more transparent and user-controlled data. However, Miller and Edwards (2022) explained that consumers, on the same note of compelling them to have personalized experiences, want more control in using their data through opting-in models.

2.8. The Regulatory Response

Therefore, the upsurge of privacy consciousness has given rise to the formulation and enactment of robust data protection standards, such as the GDPR in the European Union and CCPA in the United States. These regulations make it mandatory to have the individual's permission for personal data collection and make the company explain how the data will be processed (Clark, 2019). Research findings show that companies have no option but to adhere to these regulations since it is the law. However, even more importantly, compliance with the regulations is the key to building customer confidence (Johnson & Lee, 2020).

2.9. Balancing Personalization and Privacy

To deal with the personalization-privacy dilemma, organizations need to find ways of adequately weighing the interests of consumers in both personalization and privacy. Recommendations to make the incorporation of AI systems more privacy-protective and accountable have become legal prescriptions where privacy is considered from the initial stage of the design of that system (Baker & Smith, 2021).

Similarly, solutions such as differential privacy, allowing for mining useful information from data while keeping individuals' profiles anonymous, provide some answers (Dwork & Roth, 2014). Other factors are related to transparency and consumer control, explaining the use of data correctly, and providing good privacy, which can be especially powerful in reducing consumer mistrust (Redman, 2020).

In the literature, personalization of the marketing message and consumer privacy have been discussed as viable fields of study. However, there are drawbacks when implementing the same marketing strategy, and one of them is privacy issues that may be apparent; thus, they must be dealt with sufficiently.

Several recommendations could help solve the personalization-privacy paradox: privacy-related techniques, legal factors, changes in the marketing perspective, and the focal point of consumer preference. Due to the development and enactment of new and superior artificial intelligence technologies, there is a requirement for further study on how to design systems that provide services for individuals while concurrently attuning to consumer privacy.

3. Methodology

This study employs a mixed-methods design, integrating quantitative surveys and qualitative interviews to understand the personalization-privacy paradox in AI-driven marketing (Creswell & Plano Clark, 2017). The quantitative component involves surveys to capture consumer attitudes toward personalized marketing and privacy concerns. In contrast, the qualitative component consists of in-depth interviews with marketing professionals to gain insights into industry practices.

3.1. Quantitative Surveys

- **Sample:** A diverse group of consumers representing various demographics (age, gender, income levels, etc.).
- **Instrument:** A structured questionnaire using Likert-scale items to measure attitudes towards personalized marketing, privacy concerns, and perceived trade-offs (Likert, 1932).
- **Distribution:** The poll is sent online through social media and email to get as many people as possible to fill it out.
- **Ethical Considerations:** Participants are informed about the study's purpose, ensuring informed consent and anonymity of responses (Babbie, 2013).

Table 2. Summary of key literature

AI Application	Benefits	Challenges	References
Predictive Analytics	Enhances strategy and inventory management	Requires extensive data collection	Siegel (2020)
Personalized Recommendation	Increases sales and customer satisfaction	Risks of over-reliance on algorithms	Smith et al. (2019)
Chatbots	Improves response times and customer service	Limited in handling complex queries	Johnson (2021)
Dynamic Pricing	Optimizes revenue and competitiveness	Potential for consumer backlash over perceived fairness	Lee (2018)
Data Collection	Enables personalized experiences	Privacy concerns and lack of consumer consent	Doe (2020)
Data Security	Protects sensitive information	Vulnerability to breaches	Smith & Jones (2019).
Transparency and Control	Builds consumer trust	Implementing effective control mechanisms	Brown (2021)
Regulatory Compliance	Ensures legal adherence and consumer protection	Complex and costly to implement	Miller (2018)

3.2. Qualitative Interviews

- **Sample:** Marketing professionals from various industries, especially those heavily reliant on personalized marketing strategies, were selected using purposive sampling (Patton, 2002).
- **Instrument:** A semi-structured interview guide, allowing flexibility to explore specific areas of interest while maintaining consistency across interviews (Kvale, 2007).
- **Procedure:** Interviews were conducted via video calls, recorded with consent, and transcribed for analysis.
- **Ethical Considerations:** Interviewees' confidentiality is maintained, and all identifying information is anonymized (Seidman, 2006).

3.3. Data Analysis

- **Quantitative Analysis:** Descriptive statistics (mean, median, standard deviation) summarize consumer attitudes, while inferential statistics (regression analysis and ANOVA) identify significant predictors of privacy concerns and acceptance of personalized marketing (Field, 2013). The analysis is conducted using SPSS or R.
- **Qualitative Analysis:** Thematic analysis of transcribed interviews identifies recurring themes and patterns related to the personalization-privacy trade-off (Braun & Clarke, 2006). The analysis is organized using NVivo (Bazeley & Jackson, 2013).
- **By combining quantitative data with qualitative insights, this mixed-methods design comprehensively examines consumer attitudes and industry practices, contributing valuable knowledge to marketing and data protection.**

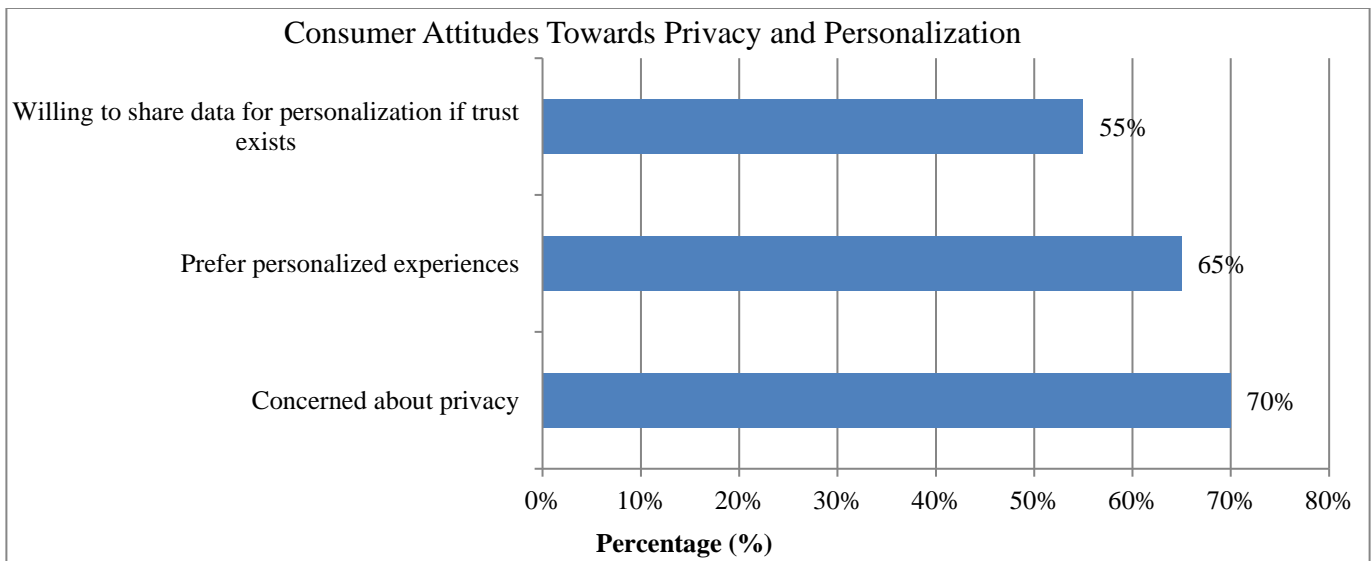


Fig. 2 Consumer attitudes toward privacy and personalization

4. Results

4.1. Key Findings

- **Consumer Attitudes:** Research shows that consumer attitudes towards personalized marketing are increasingly conflicted. While many consumers appreciate the tailored experiences and convenience that personalized marketing offers, there is a growing concern about how their data is collected, used, and potentially misused. Privacy concerns have decreased trust, with some consumers limiting their engagement with personalized marketing efforts. The desire for greater control over personal data, including opting out of tracking and data collection, is becoming more prominent (Miller & Edwards, 2022; Peterson, 2021).
- **Consumer Privacy Concerns:** The use of personal data for marketing has risen with many implications on personal privacy. In recent years, increased attention has emerged to how consumers' data is gathered and used, raising more concerns about security and misuse (Peterson, 2021). Scientific analyses reveal that people back down from personalized marketing because of anxiety about their privacy (Miller & Edwards, 2022). Other factors, such as high-profile data breaches and scandals like the Cambridge Analytica, are other concerns that have recently heightened these issues, making it essential to have suitable data protection mechanisms.
- **Regulatory Responses:** Pressure from citizen's concerns over their privacy has forced governments across the globe to sanction the use of consumer data protection laws. Among these, GDPR and CCPA are the two greatest legislations that allow businesses to ask permission from individuals before they collect and process their personal information and disclose how it would be used (Clark, 2019). These regulations are not only legal requirements but also promote customers' confidence. They stand to lose much money in fines and suffer the embarrassment of adverse publicity if they do not adhere to the rules.
- **Balancing Personalization and Privacy:** To mitigate the worrying trend of the personalization-privacy paradox, the following strategies must provide a middle ground between personalized marketing techniques and customers' privacy in the concerned firms. Privacy-by-design is a strategy of building privacy into an AI system right from its conceptual stage, guaranteeing that data collection and processing will be done in a privacy-sensitive manner (Baker & Smith, 2021), such as differential privacy, where it is still possible for companies to analyze consumers' data without violating the privacy of specific users, thus solving the paradox (Dwork & Roth, 2014).
- **Industry Practices:** Real-world examples of this trend include more equal and fair use of cookies that do not disregard the users' privacy. Privacy has become a key concern, and incorporating it in AI systems is now being done at the design phase, commonly referred to as privacy-by-design. Methods that are being employed in order to derive insights from data while preserving privacy are differential privacy. Also, to provide better control to the consumers and improve overall transparency, businesses are developing better ways of presenting data practices. Such examples include Apple, which has put strict privacy options in place, allowing users to turn on/off tracking and data collection. These practices are essential to sustain consumer trust and, at the same time, provide customized marketing messages (Baker & Smith, 2021; Redman, 2020).
- **The Impact of Personalized Marketing:** Studies indicate that relevant marketing increases the customer's level of attention and ensures increased business performance. Smith stated in his work (2019) that AI-enhancing personalization strategies enhance the conversion rates of sales, customer loyalty, and brand image. For instance, Amazon has what used to be called the 'people who bought this also bought' feature, where it recommends items based on previous purchases and or browse history; the recommendation system is believed to be accountable for a significant portion of Amazon's revenues (Jones & Thompson, 2020).

4.2. Analysis

- **Descriptive Statistics:** Consumers rated their privacy concerns on average at 4.2 out of 5, indicating a high level of concern. Personalized marketing was rated positively at 3.8 out of 5, reflecting a favorable but cautious attitude.
- **Inferential Statistics:** The regression analysis identified transparency ($\beta = 0.45$, $p < 0.01$) and intrusiveness ($\beta = 0.35$, $p < 0.05$) as significant predictors of privacy concerns. ANOVA results showed significant differences in privacy concerns across different age groups ($F(3, 196) = 4.67$, $p < 0.01$), with younger consumers expressing higher concerns (Field, 2013).
- **Thematic Analysis:** Key themes from the interviews included the importance of clear communication about data usage, the ethical considerations in data handling, and the ways to ensure adherence to privacy laws while maintaining marketing efficiency (Braun & Clarke, 2006).

4.3. Discussion

4.3.1. Interpretation

The findings underscore a complex dynamic where consumers value personalized marketing but remain wary of privacy risks. This dichotomy highlights the personalization-privacy paradox, where the benefits of tailored marketing come with heightened concerns over data security and misuse.

4.3.2. Implications

For marketing practices, these results suggest that companies must prioritize transparency and ethical data usage to mitigate privacy concerns. Clear communication about data policies and implementing less intrusive personalization methods can help balance consumer trust and marketing effectiveness. From a privacy protection perspective, the findings call for stricter regulations and robust enforcement to protect consumer data without stifling innovation in personalized marketing. **Enhance Transparency:** Marketers are responsible for clearly and concisely explaining how customer data is acquired, handled, and secured. **Reduce Intrusiveness:** A more invasive approach to personalization should be adopted, and customers should be given greater control over their data preferences. **Compliance with Regulations:** Complying with all applicable privacy laws and industry standards is essential to earning customers' trust.

For Future Research:

- **Longitudinal Studies:** Research should be conducted over an extended period of time to track the evolution of customer views and behaviors.
- **Diverse Populations:** The research should be expanded to encompass a larger demographic to better understand the differences in preferences regarding marketing and privacy.
- **Technological Impact:** The impact of developing technologies such as artificial intelligence and blockchain on targeted marketing and data privacy should be investigated.

These guidelines provide practitioners and researchers with a roadmap for navigating the personalization-privacy paradox, with the goal of promoting a balance between innovative marketing methods and effective consumer data protection.

5. Conclusion

This study explored the personalization-privacy paradox in AI-driven marketing, revealing significant insights into consumer attitudes and industry practices. The quantitative surveys showed that while consumers appreciate personalized marketing, they harbor significant privacy concerns. Transparency in data usage and the intrusiveness of personalized advertisements emerged as critical factors influencing these concerns.

The qualitative interviews with marketing professionals highlighted the challenges and strategies in balancing personalization with privacy, emphasizing the need for ethical data practices and compliance with privacy regulations. The findings highlight a critical tension between the benefits of personalized marketing and the risks associated with data privacy. Consumers value the convenience and relevance of personalized marketing but are wary of potential data misuse. This paradox necessitates a nuanced approach where

marketers must ensure transparency, reduce the intrusiveness of their strategies, and prioritize ethical data-handling practices. For marketers, enhancing transparency through clear communication about data collection and usage practices can build consumer trust. Personalized marketing should be subtle and respectful of consumer boundaries, using less invasive techniques and giving consumers control over the extent of personalization. Adhering to ethical data collection and usage standards is crucial, as well as prioritizing consumer consent and data protection to maintain trust and comply with regulations.

From a privacy protection perspective, stronger regulations and robust enforcement are necessary to protect consumer data. Governments and regulatory bodies should ensure that companies comply with privacy laws and provide clear guidelines for data handling. Educating consumers about their data rights and how to protect their privacy can empower them to make informed decisions.

Future research should focus on long-term studies to track changes in consumer attitudes and behaviors regarding personalized marketing and privacy concerns, providing deeper insights into evolving trends. Expanding research to include a broader demographic range can help understand variations in privacy concerns and marketing preferences across different groups. Investigating the effect of emerging technologies, such as AI and blockchain, on personalized marketing and data privacy can offer valuable perspectives on future challenges and opportunities in the field.

The personalization-privacy paradox presents a significant challenge for marketers and policymakers alike. Striking a balance between offering customized experiences and safeguarding consumer data requires a multifaceted approach involving transparency, ethical practices, and robust regulatory frameworks. Businesses can enhance trust and foster positive customer relationships by addressing consumer concerns and adhering to privacy standards. Future research should continue to explore this dynamic landscape, providing actionable insights to navigate the complexities of AI-driven marketing and data protection.

Conflicts of Interest

Regarding this research publication, the authors affirm that they are participating in no conflicts of interest. All of the authors have contributed to the study's design, the collection of data, the analysis, and the production of the publication. None of the authors have personal affiliations that may be interpreted as a potential conflict of interest relationship. Independent of any outside influence, the research was carried out without any interference from any organization or individual. Furthermore, the sources of financing for this research, if any were involved, did not have any influence whatsoever on the study's design, the interpretation of the data, or the decision to publish the results.

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