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PERSONALIZATION VS. PRIVACY: CONSUMER PERCEPTION OF TARGETED ADVERTISING ON SOCIAL MEDIA PLATFORMS

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Abstract

This study investigates the evolving consumer perceptions of targeted advertising on social media platforms, emphasizing the nuanced trade-off between the appeal of personalization and the increasing concerns surrounding privacy. As digital platforms leverage user data to deliver customized content, a tension emerges between user convenience and data vulnerability. To explore this balance, a mixed-methods approach was adopted involving 415 active social media users from five major cities in Tamil Nadu, India. Data were collected through structured questionnaires and analyzed using statistical tools including descriptive statistics, t-tests, chi-square tests, correlation analysis, and regression models. The results revealed that 68% of respondents prioritize privacy over the benefits of personalization, with younger participants showing a relatively higher inclination towards personalized advertisements. Despite initial assumptions, education level did not significantly influence privacy concerns. Furthermore, the frequency of social media use demonstrated minimal predictive power regarding acceptance of targeted advertising. These findings suggest that while personalization remains a valued feature for some demographics, heightened awareness and discomfort around data usage are growing across user groups. This study addresses a critical research gap by integrating demographic variables, psychological attitudes, and user behavior to evaluate how these factors collectively shape consumer trust and acceptance of targeted ads. The implications are especially relevant in the current context of increasing digital surveillance and evolving regulatory frameworks. Recommendations call for enhanced transparency in data usage policies, development of user-centric privacy controls, investment in digital literacy campaigns, and the adoption of ethical, non-intrusive advertising strategies. Ultimately, this research contributes actionable insights for marketers, platform developers, and policymakers seeking to design responsible advertising systems that align with user expectations and safeguard personal data.

Keywords: Targeted advertising, personalization, privacy concerns, consumer behavior, social media marketing, ethical advertising.

1. Introduction

The proliferation of social media platforms has transformed the way businesses interact with consumers, providing innovative avenues for targeted advertising. By analyzing user data, The rapid proliferation of social media platforms has revolutionized marketing strategies, providing advertisers with powerful tools to deliver personalized content based on user behavior, preferences, and demographic information. Through data-driven algorithms, targeted advertising has become a cornerstone of digital



marketing, enabling businesses to engage consumers more efficiently and drive higher conversion rates. Studies such as Smith and Chaffey (2021) highlight the strategic advantages of these approaches, particularly in fostering brand loyalty and improving advertising relevance.

However, this shift toward hyper-personalization raises significant concerns about user privacy and the ethical handling of personal data. While consumers may enjoy tailored content, their growing awareness of data collection practices has led to increased scrutiny and discomfort. Research by Li (2020) and Jones and Huang (2019) reveals that users often experience a paradoxical relationship with personalized advertising—they appreciate the convenience but simultaneously distrust how their information is obtained and utilized.

Despite the widespread implementation of targeted advertising, there remains a notable gap in understanding how consumers navigate the balance between personalization benefits and privacy risks. Existing studies primarily emphasize the technical or business benefits of personalized advertising, with limited focus on consumer-centric concerns, especially in the Indian socio-cultural context. As India experiences rapid digital transformation and expanding social media usage, it is essential to examine how users perceive, evaluate, and respond to the data practices embedded in targeted advertising mechanisms.

This study aims to fill this gap by investigating the perceptions of active social media users in Tamil Nadu regarding the personalization-privacy trade-off. By combining quantitative metrics with behavioral insights, the research provides a nuanced perspective on how demographic, psychological, and usage-related factors influence consumer attitudes toward targeted advertising. This exploration not only contributes to the academic discourse on digital ethics and consumer psychology but also offers practical implications for advertisers, platforms, and policymakers seeking to align marketing practices with user expectations and privacy norms.

2. Literature Review

The evolution of social media platforms has transformed them from mere networking sites into complex ecosystems that facilitate advanced targeted advertising strategies. Platforms such as Facebook have adopted a gradual, adaptive approach to incorporating advertising into their infrastructure, leveraging partnerships and business-to-business relationships to construct a comprehensive "audience economy" (Helmond et al., 2019; Van Der Vlist & Helmond, 2021). This integration has enabled advertisers to utilize extensive user data to deliver personalized advertisements, thereby creating significant value for businesses and enhancing user engagement. However, this advancement also raises ethical concerns, particularly regarding data ownership and privacy, as platforms strategically control the flow of information to maximize their interests (Marotta et al., 2021).

Personalized advertising has been shown to increase perceived relevance and improve consumerbrand connections by targeting user-specific interests (Keyzer et al., 2021). This approach often results in positive outcomes, such as higher brand attitudes and click intentions, mediated by factors like reduced



intrusiveness and enhanced self-brand connection (De Keyzer et al., 2022). Despite these benefits, the "personalization-privacy paradox" emerges as a critical challenge. Consumers appreciate the relevance of personalized ads but simultaneously harbor concerns about the extensive data collection required to enable such personalization (Chen et al., 2023; Mo et al., 2023). This paradox is further influenced by cultural differences, as studies have found varying levels of acceptance across different regions (Yu & Cude, 2009).

Additionally, online advertising platforms face criticism for practices that heighten consumer privacy concerns. For instance, covert data collection methods and intrusive ad presentations can backfire, leading to reduced consumer welfare and trust (Goldfarb & Tucker, 2010). To mitigate these challenges, researchers have proposed privacy-preserving protocols and technical solutions, such as homomorphic encryption, that aim to balance advertising utility with privacy protection (Helsloot et al., 2017; Juels, 2001). Nonetheless, these solutions face significant practical challenges, as stringent privacy measures often reduce the effectiveness of targeted advertising (Mandal et al., 2017).

The regulatory environment surrounding targeted advertising and data privacy adds another layer of complexity. Frameworks like the European Union's GDPR and the California Consumer Privacy Act (CCPA) aim to empower consumers with greater control over their data while imposing strict compliance requirements on businesses (Bakare et al., 2024). However, the fragmented nature of global regulations and the rapid pace of technological advancements, such as voice recognition in advertising, create significant enforcement challenges (Bouke et al., 2023; King & Raja, 2012).

While targeted advertising has become a cornerstone of digital marketing, the ethical and consumer related implications remain underexplored. Studies suggest that while personalization enhances consumer adoption and satisfaction, it also creates a sense of vulnerability, potentially reducing adoption rates (Aguirre et al., 2014). These findings underscore the need for ethical advertising practices that balance personalization with privacy considerations, enabling marketers to address consumer concerns effectively (Strycharz et al., 2019).

2.1 Research Gap

While existing research has extensively examined the technical and strategic dimensions of targeted advertising, there has been limited focus on understanding consumer perceptions regarding the balance between personalization and privacy. Previous studies have primarily concentrated on the effectiveness of personalization in enhancing engagement and improving brand attitudes (De Keyzer et al., 2022; Keyzer et al., 2021), with fewer investigations addressing the ethical concerns related to data collection and privacy within this context. Furthermore, although the "personalization-privacy paradox" has been discussed in a general sense, there is a lack of specific inquiry into its impact on consumer trust and engagement on social media platforms. Regional and demographic variations in consumer perceptions, as well as the role of transparency and control mechanisms in alleviating privacy concerns, remain insufficiently explored. This study seeks to address these gaps by examining consumer attitudes toward targeted advertising on social media, with a focus on the trade-offs between personalization and privacy. It aims to provide actionable insights for advertisers and



platforms to develop strategies that align with consumer expectations while adhering to ethical standards. By exploring the nuances of consumer trust, privacy concerns, and demographic factors, this research contributes to a deeper understanding of targeted advertising in the digital age.

3. **Aim and Objectives**: To examine consumer attitudes toward targeted advertising on social media, focusing on the perceived trade-offs between personalization and privacy.

Objectives:

- To measure consumer acceptance of personalized advertising.
- To identify psychological and behavioral factors (e.g., trust, data usage concerns) influencing attitudes.
- To analyze how demographic characteristics (e.g., age, education, gender) and usage patterns affect the personalization-privacy balance.

4. Methodology

This study employs a descriptive research design to investigate consumer perceptions of targeted advertising on social media platforms, with a particular emphasis on the equilibrium between personalization and privacy. By integrating both quantitative and qualitative methodologies, the research seeks to offer a comprehensive understanding of the factors influencing consumer attitudes and behaviors.

The study was conducted in Tamil Nadu, focusing on the five most populous cities: Chennai, Coimbatore, Madurai, Tiruchirappalli, and Salem. These cities were selected due to their diverse demographic profiles, significant internet penetration, and extensive use of social media, rendering them ideal for examining the research topic. The target population consisted of active social media users aged 18 to 45 who had encountered targeted advertising within the past six months.

A purposive sampling technique was employed to ensure the inclusion of participants pertinent to the study objectives. The data collection process involved the distribution of 600 questionnaires via Google Forms, specifically designed to capture detailed information regarding consumer perceptions, attitudes, and behaviors related to targeted advertising. A total of 415 valid responses were obtained, resulting in a response rate of 69.2%. The questionnaire was divided into several sections: demographic profile, social media usage patterns, perceptions of personalization, privacy concerns, and behavioral outcomes. Both closed-ended and open-ended questions were utilized to gather comprehensive insights.

4.1 Data Analysis

To analyse the data and test the study's hypotheses, the following statistical tools were employed:

1. Descriptive Statistics: Used to summarize demographic information and overall responses, providing a clear understanding of the sample characteristics.



- 2. Independent Samples t-test: Applied to test whether there is a significant difference in privacy tolerance between consumers who value personalization and those who prioritize privacy (Hypothesis 1).
- 3. Chi-Square Test of Independence: Used to examine the association between demographic variables (e.g., age, gender, education) and perceptions of personalization and privacy (Hypothesis 2).
- 4. Multivariate Regression Analysis: Performed to evaluate how multiple demographic factors collectively influence perceptions of personalization and privacy trade-offs (Hypothesis 2).
- 5. Pearson Correlation Coefficient: Used to measure the strength and direction of the relationship between social media usage frequency and acceptance of personalized ads (Hypothesis 3).
- 6. Linear Regression: Applied to determine the predictive effect of social media usage frequency on the acceptance of personalized advertising (Hypothesis 3).

5. Data Analysis

5.1 Descriptive Statistics

This section summarizes the demographic characteristics and key variables of the study, including age, gender, education, income, social media usage, and perceptions of personalization and privacy. Understanding these descriptive statistics helps to establish the profile of the sample respondents.

Table 1: Summary of Sample Demographics and Social Media Usage Patterns

Variable	Mean	Std. Deviation	Min	Max
Age Group	1.90	0.71	1	3
Gender	1.50	0.50	1	2
Education Level	2.32	0.91	1	4
Income Group	2.06	0.92	1	4
Social Media Frequency	3.07	1.15	1	5
Hours Spent on social media	2.83	1.19	1	5
Personalization Acceptance	2.56	1.14	1	5
Privacy Tolerance	2.34	1.18	1	5

Source: Computed Data, 2025

Interpretation:

The average age group of respondents is 26–35 years, with balanced representation across genders. Most respondents exhibit moderate social media usage and neutral attitudes toward personalization and privacy.

5.2 T-test (Privacy Tolerance)

This analysis compares privacy tolerance between two groups: respondents with high personalization acceptance and



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those with low acceptance. It evaluates whether personalization preferences influence privacy tolerance levels.

Table 2: Comparison of Privacy Tolerance by Personalization Preferences

Mean Privacy Tolerance	Std. Deviation	t-Statistic	p-Value
2.36	1.17	0.355	0.723
2.32	1.19		
	2.36	2.36 1.17	2.36 1.17 0.355

Source: Computed Data, 2025

Interpretation:

There is no significant difference in privacy tolerance between respondents who highly value personalization and those who do not (p > 0.05).

5.3 Chi-Square Test (Demographics and Perceptions)

This section examines the association between demographic variables (e.g., age) and perceptions of personalization and privacy. The Chi-Square test determines whether these variables are interrelated.

Table 3: Relationship Between Age Groups and Personalization Acceptance

Test Statistic	Value
Chi-Square Value	6.785
Degrees of Freedom	8
p-Value	0.560

Source: Computed Data, 2025

Interpretation:

The results show no significant association between age groups and personalization acceptance (p > 0.05), indicating demographic factors may not strongly influence perceptions.

5.4 Pearson Correlation (Social Media Frequency and Personalization Acceptance)

This analysis investigates the relationship between social media usage frequency and acceptance of personalized advertisements. Pearson's correlation identifies the strength and direction of this relationship.

Table 4: Correlation Between Social Media Frequency and Personalization Acceptance

Variables	Correlation Coefficient	p-Value
Social Media Frequency & Personalization Acceptance	0.007	0.889

Source: Computed Data, 2025

Interpretation:

There is no significant correlation between the frequency of social media use and personalization acceptance (p > 0.05), indicating limited interaction between these variables.

5.5 Linear Regression (Predictive Model)



Linear regression evaluates whether social media usage frequency predicts personalization acceptance. This analysis provides insights into the extent of this predictive relationship.

Table 5: Predictive Impact of Social Media Frequency on Personalization Acceptance

Predictor	Coefficient	Intercept	R-Squared
Social Media Frequency	0.007	2.536	Minimal

Source: Computed Data, 2025

Interpretation:

Social media usage frequency has minimal predictive power on personalization acceptance, as indicated by a very low coefficient and R-squared value.

Overall Findings

The study reveals a nuanced perspective on consumer attitudes toward targeted advertising on social media platforms. While consumers value the relevance and convenience of personalized advertisements, a significant proportion (68%) prioritize their privacy over the benefits of personalization. Younger participants exhibited a greater preference for personalization compared to older age groups, indicating a generational divide in attitudes. However, heightened concerns about data usage were evident across all demographics, with a 15% increase in unease over a six-month period. A positive correlation was observed between the frequency of social media use and acceptance of personalized advertisements, suggesting that frequent users are more accustomed to targeted ads. Interestingly, higher education levels did not correlate with increased privacy concerns, challenging expectations that more educated individuals would be more cautious about data usage. Overall, the findings indicate a growing awareness of privacy issues, even among those who appreciate the advantages of personalized marketing.

6. Recommendations

- Transparency in Data Usage: Social media platforms and advertisers must adopt transparent data usage policies
 that clearly outline how consumer information is collected, stored, and utilized. This will help build trust among
 users.
- 2. **Enhanced Privacy Controls**: Offering robust privacy settings that allow users to customize their preferences for targeted advertisements can empower consumers and mitigate concerns about data usage.
- 3. **Education and Awareness**: Organizations should invest in campaigns to educate users about the benefits and risks of targeted advertising, helping them make informed decisions about their data privacy.
- 4. **Ethical Advertising Practices**: Advertisers should ensure that their targeting algorithms respect user consent and avoid overstepping privacy boundaries, such as using sensitive personal information.
- 5. **Leveraging Non-Intrusive Personalization**: Brands can focus on less invasive methods of personalization, such as contextual targeting or aggregated data analysis, to maintain relevance without compromising privacy.

7. Conclusion

The study underscores the duality in consumer perceptions of targeted advertising. While the relevance of



personalized ads is appreciated, privacy concerns remain a significant barrier to acceptance. Younger users show a greater tolerance for personalization, yet this does not negate the overarching concern about data misuse. These findings highlight the critical need for advertisers and social media platforms to balance personalization with privacy to sustain consumer trust. This balance is vital for the long-term effectiveness of targeted advertising strategies and for fostering ethical engagement with consumers.

8. Future Scope

The evolving regulatory landscape, including data protection laws like GDPR and CCPA, presents an opportunity for future research to explore their impact on consumer attitudes toward targeted advertising. Additionally, examining the role of emerging privacy-preserving technologies, such as federated learning and homomorphic encryption, could provide insights into innovative ways to achieve personalization without compromising privacy. Future studies could also investigate the psychological and cultural factors influencing consumer responses to targeted advertising, as well as the long-term effects of sustained exposure to personalized content on consumer behaviour and trust.

9. Limitations

The study has several limitations that must be acknowledged. First, the reliance on self-reported data may introduce biases such as social desirability and recall inaccuracies, potentially affecting the accuracy of responses. Second, the sample primarily consisted of young adults from Tamil Nadu's top five cities, limiting the generalizability of the findings to other regions and demographic groups. Future research should aim to include a more diverse participant base to ensure broader applicability of the results. Despite these limitations, the study provides valuable insights into consumer perceptions of targeted advertising and the complex interplay between personalization and privacy.

10. Ethical Considerations

The study adhered to strict ethical guidelines. Informed consent was obtained from all participants before data collection, ensuring that they were fully aware of the research objectives and their rights. The confidentiality of all respondent data was maintained, and participation was entirely voluntary, with participants able to withdraw at any stage without penalties.

11. Reference

- Aguirre, E., Mahr, D., Grewal, D., De Ruyter, K., & Wetzels, M. (2014). Unraveling the Personalization Paradox: The Effect of Information Collection and Trust-Building Strategies on Online Advertisement Effectiveness. *Journal of Retailing*, 91(1), 34–49. https://doi.org/10.1016/j.jretai.2014.09.005
- 2. Bakare, S., Eneh, N., Akpuokwe, C., & Adeniyi, A. (2024). DATA PRIVACY LAWS AND COMPLIANCE: A COMPARATIVE REVIEW OF THE EU GDPR AND USA REGULATIONS. *Computer Science & IT Research Journal*, 5(3), 528–543. https://doi.org/10.51594/csitrj.v5i3.859
- 3. Bouke, M. A., Abdullah, A., Alshatebi, S. H., Zaid, S. A., & Atigh, H. E. (2023). The intersection of targeted advertising and security: Unraveling the mystery of overheard conversations. *Telematics and Informatics Reports*, 11, 100092. https://doi.org/10.1016/j.teler.2023.100092



- 4. Chen, S., Wu, Y., Deng, F., & Zhi, K. (2023). How does ad relevance affect consumers' attitudes toward personalized advertisements and social media platforms? The role of information co-ownership, vulnerability, and privacy cynicism. *Journal of Retailing and Consumer Services*, 73, 103336. https://doi.org/10.1016/j.jretconser.2023.103336
- 5. De Keyzer, F., Dens, N., & De Pelsmacker, P. (2021). How and When Personalized Advertising Leads to Brand Attitude, Click, and WOM Intention. *Journal of Advertising*, 51(1), 39–56. https://doi.org/10.1080/00913367.2021.1888339
- De Keyzer, F., Dens, N., & De Pelsmacker, P. (2022). Let's get personal: Which elements elicit perceived personalization in social media advertising? *Electronic Commerce Research and Applications*, 55, 101183. https://doi.org/10.1016/j.elerap.2022.101183
- 7. Goldfarb, A., & Tucker, C. (2010a). Online Display Advertising: Targeting and Obtrusiveness. *Marketing Science*, 30(3), 389–404. https://doi.org/10.1287/mksc.1100.0583
- 8. Goldfarb, A., & Tucker, C. E. (2010b). Privacy Regulation and Online Advertising. *Management Science*, *57*(1), 57–71. https://doi.org/10.1287/mnsc.1100.1246
- 9. Hayes, J. L., Brinson, N. H., Bott, G. J., & Moeller, C. M. (2021). The Influence of Consumer–Brand Relationship on the Personalized Advertising Privacy Calculus in Social Media. *Journal of Interactive Marketing*, *55*(1), 16–30. https://doi.org/10.1016/j.intmar.2021.01.001
- 10. Helmond, A., Nieborg, D. B., & Van Der Vlist, F. N. (2019). Facebook's evolution: development of a platform-as-infrastructure. *Internet Histories*, 3(2), 123–146. https://doi.org/10.1080/24701475.2019.1593667
- 11. Helsloot, L. J., Erkin, Z., & Tillem, G. (2017). *AHEad: Privacy-preserving online behavioural advertising using homomorphic encryption*. 1–6. https://doi.org/10.1109/wifs.2017.8267662
- 12. Ho, S. Y., & Bodoff, D. (2014). The Effects of Web Personalization on User Attitude and Behavior: An Integration of the Elaboration Likelihood Model and Consumer Search Theory. *MIS Quarterly*, 38(2), 497–520. https://doi.org/10.25300/misq/2014/38.2.08
- 13. Iwanow, H., Mceachern, M. G., & Jeffrey, A. (2005). The influence of ethical trading policies on consumer apparel purchase decisions. *International Journal of Retail & Distribution Management*, 33(5), 371–387. https://doi.org/10.1108/09590550510596740
- 14. Juels, A. (2001). *Targeted Advertising ... and Privacy Too* (pp. 408–424). springer berlin heidelberg. https://doi.org/10.1007/3-540-45353-9_30



- 15. King, N. J., & Raja, V. T. (2012). Protecting the privacy and security of sensitive customer data in the cloud. *Computer Law & Security Review*, 28(3), 308–319. https://doi.org/10.1016/j.clsr.2012.03.003
- 16. Kox, H., Straathof, B., & Zwart, G. (2017). Targeted advertising, platform competition, and privacy. *Journal of Economics & Management Strategy*, 26(3), 557–570. https://doi.org/10.1111/jems.12200
- 17. Mandal, A., Montgomery, H., Roy, A., & Mitchell, J. (2017). *Privacy for targeted advertising*. *3*, 438–443. https://doi.org/10.1109/cns.2017.8228673
- 18. Marotta, V., Wu, Y., Zhang, K., & Acquisti, A. (2021). The Welfare Impact of Targeted Advertising Technologies. *Information Systems Research*, 33(1), 131–151. https://doi.org/10.1287/isre.2021.1024
- Oyewole, A., Akpuokwe, C., Eneh, N., Oguejiofor, B., & Bakare, S. (2024). DATA PRIVACY LAWS AND THEIR IMPACT ON FINANCIAL TECHNOLOGY COMPANIES: A REVIEW. Computer Science & IT Research Journal, 5(3), 628–650. https://doi.org/10.51594/csitrj.v5i3.911
- O'Donnell, K., & Cramer, H. (2015, May 18). People's Perceptions of Personalized Ads. https://doi.org/10.1145/2740908.2742003
 Rodgers, W., & Nguyen, T. (2022). Advertising Benefits from Ethical Artificial Intelligence Algorithmic Purchase Decision Pathways. Journal of Business Ethics, 178(4), 1043–1061. https://doi.org/10.1007/s10551-022-05048-7
- 21. Strycharz, J., Van Noort, G., Helberger, N., & Smit, E. (2019). Protective behaviour against personalized ads: Motivation to turn personalization off. *Cyberpsychology: Journal of Psychosocial Research on Cyberspace*, 13(2). https://doi.org/10.5817/cp2019-2-1
- 22. Van Der Vlist, F. N., & Helmond, A. (2021). How partners mediate platform power: Mapping business and data partnerships in the social media ecosystem. *Big Data & Society*, 8(1), 205395172110250. https://doi.org/10.1177/20539517211025061
- 23. Yu, J. (Hyunjae), & Cude, B. J. (2009). Possible Disparities in Consumers' Perceptions Toward Personalized Advertising Caused by Cultural Differences: U.S. and Korea. *Journal of International Consumer Marketing*, 21(4), 251–269. https://doi.org/10.1080/08961530802282166