

AI-POWERED PREDICTIVE ANALYTICS IN MARKETING: ETHICAL CONCERNS SURROUNDING CONSUMER MANIPULATION AND PRIVACY

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ABSTRACT

AI has taken marketing to a new level by ensuring the use of predictive analytics in developing new marketing strategies that accurately address clients' needs. While bringing about changes in the corporation's ability to efficiently meet its customer needs, these technologies raise ethical issues of explicit customer manipulation, privacy violation, and customer data use. This research uses a quantitative research method with a deductive approach to investigate these matters and hypotheses on 300 online consumers impotent with AI-based marketing advertisements. Both closed-ended questionnaires were used to collect the data and were analyzed using the statistical package of social sciences. Based on the general view of participants, 72% of consumers think that AI in advertisements is invasive, and 58% of customers easily fall victim to purchasing products they never intended to purchase due to AI recommendations. Unfortunately, only 35 percent of the consumers polled showed an understanding of how their data is collected and used, a decision that indicates that there remain transparency gaps in current procedures. In addition, 81% of the participants showed a high level of concern for restrictive regulation of AI in marketing to protect privacy and self-determination. These conclusions pave the way for the demand for increasing uses of ethical AI tools and measures, increased procedures for accountability, and improvement of legislation in data protection. The work can add to the current discussions of the responsible use of AI in marketing and bring some empirical results for policymakers and other stakeholders. By tackling these ethical issues, businesses can improve user trust and the continued use of AI-based predictive analytics in today's dynamic business environment.

Keywords: AI-powered predictive analytics, consumer manipulation, data privacy, ethical marketing, quantitative research

1.0 INTRODUCTION

The use of artificial intelligence in the recent past has significantly impacted the field of marketing through the use of predictive analytics. This tool uses machine learning models to predict consumers' buying patterns accurately. Using such big data as browsing history, check and credit card records, and social media activity logs, AI provides highly targeted and effective marketing, dramatically increasing click-through and conversion rates. The current studies show that employing AI in marketing can boost conversion rates for businesses by as much as 30%, which outlines the anticipated development of the sector at \$48.8bn by 2025 at a CAGR of 26.2% (Statista, 2023). Still, as mentioned above, several critical ethical issues have arisen concerning consumers' control, psychological influence, and information confidentiality.

Among the most common ways to utilize AI in marketing is behavioral micro-targeting, in which machines analyze people's actions to expose them to advertising. For instance, Amazon's recommendation services, which are reported to generate 35% of its revenue, give a list of items that a customer is likely to order based on the history of his or her purchases or searches (Forbes, 2023). Likewise, the AI recommendations on Netflix affect about 80% of the views; user engagement is also kept longer due to these recommendations (Harvard Business Review, 2021). Although these strategies increase revenue, they rely on specific forms of cognitive bias, for example, anchor bias that involves posting higher initial prices to make price reductions seem appealing and the fear of missing out (FOMO) that is driven by the kind of wording that can be seen in stock availability statements like "Only two left in stock!" (Kahneman, 2011; Wu et al., 2022). This tells us more about the illustration of the pressure created by artificial intelligence and machine learning-based marketing to influence the consumer's decision-making process, thus posing an ethical dilemma.

However, two other problems associated with the CRO process are noteworthy, one of which is data privacy. Thus, most consumers are ignorant of how AI systems gather and process their data. The Pew Research conducted in 2023 shows that of all the users, 65 percent are unaware of how their data is processed, and 72 percent are annoyed by AI-sponsored ads. Facebook, for instance, faced a major scandal where its users' data was harvested by a consultancy firm, Cambridge Analytica, and was used to manipulate voters (The Guardian, 2018). While specific laws such as the GDPR have focused on promoting transparency, the latter has not been effectively implemented, and most privacy policies are intentionally written to deter users from exercising their rights (Forrester, 2022).

Therefore, this research focuses on three primary research questions: the effect of AI-based PAs on consumer decision-making, consumers' level of awareness about PAs using their data, and the associated ethical issues of the hyper-personalization of marketing communication. In this study, adopting a quantitative research design, 300 consumers were asked in an online survey about their experience with automated ads and risks related to their privacy. The conclusion is intended to enlighten policymakers and business entities on the fact that they should encourage enhanced regulation, transparency, and ethical use of AI to safeguard consumers' interests without compromising marketing effectiveness.

2.0 LITERATURE REVIEW

2.1 AI-Powered Predictive Analytics in Marketing: Efficiency vs. Ethics

Marketing predictive analytics utilize past sales data, advances in ML, and large data sets to estimate consumer buying patterns in the future accurately. The astounding advancement of AI has been well displayed by some industry giants such as Netflix and Amazon; Netflix's recommendation system contributes to approximately 80% of the conceived consumption (Gomez-Uribe & Hunt, 2016), and on the same note, the dynamic pricing algorithms used by Amazon have boosted their profits by over 25% (McKinsey, 2022). These systems enhance the customer experience and business profits while at the same time raising concerns over ethics due to their reliance on data collection. Digital marketing through AI means involves the constant accumulation of consumer data, for which consumer consent is not always sought. On the one hand, companies regard personalization as increasing customer satisfaction, whereas

critics claim it leads to surveillance capitalism, where each interaction on the internet is commodified (Zuboff, 2019). The absence of a set legal framework concerning data ownership compounds these issues. At the same time, the GDPR demands explicit consent from the user, but its enforcement is still irregular, and many companies take advantage of it (Wachter, 2021). However, the "black box" allegory implies that even marketers cannot fully comprehend why particular predictions or targeting decisions are made (2016).

Though academic marketing research has widely explored the place of AI, little evidence has systematically unveiled and questioned the corporate rationale for data harvesting in the name of personalization. There is still relatively little done that covers how the regulations, for instance, GDPR and CCPA, were able to address practices amounting to the exploitation of people's data across jurisdictions.

2.2 Consumer Manipulation Through AI: The Exploitation of Cognitive Biases

AI Marketing is not a simple predictive exercise; it uses psychological heuristics. For instance, anchoring bias is used by setting artificially high 'original' prices, such as those slightly above the actual cost of the product, as in the case of 'Amazon's strikethrough pricing', making the actual discounts look massive (Kahneman, 2011). In the same way, by using false shortage signals such as "only two rooms left," recency bias is also used by traveling platforms such as Booking.com. to create a sense of urgency (Lambrecht & Tucker, 2019). They are bordering on psychological coercion as they are based on psychological influences.

Research data available provides evidence that such strategies work relatively quickly and efficiently. According to a survey by Pew Research in 2023, 58% of consumers believed that the personalized ads made them feel manipulated, while 47% said they had made purchases that they had not intended due to artificial intelligence. Worse still, COVID-19 affects such vulnerable sectors as low-income earners and people who tend to make excessive purchases. This raises ethical concerns about whether corporations should balance harm, especially in current systems that are created to ensure engagement regardless of the cost (Crawford, 2021).

Extensive studies have largely emphasized the efficacy of manipulative strategies and the social costs associated with such actions. However, there is also a certain lack of insight into how the use of AI manipulation, repeated over time, impacts consumer behavior.

2.3 Privacy Concerns and Data Exploitation: From Cambridge Analytica to Modern Surveillance Marketing

The Cambridge Analytica scandal has shown that, without any regulation in place, data can be used nefariously for psychographic profiling and swaying votes (Cadwalladr, 2018). Although contentment arose with GDPR and similar laws, it is often fake. According to Forrester (2022), only a 32percent of consumers can comprehend privacy policies when the latter are usually written in legal jargon. This 'consent theater' (Nissenbaum, 2019) provides a subjective feeling of control, although everybody always stays watched. It will be seen that the marketing AI is no longer just tracking information but comes with emotional intelligence and even predicting consumer behavior to an extent, like policing. For instance, the affective's AI identifies emotional responses to ads from facial expressions, whereas retail stores apply heat maps to capture human movements physically (Stark, 2021). These features raise dystopian questions

regarding the accuracy of the life forecast and the potential monetization of all its aspects in the virtual and real world. Despite GDPR and the California Consumer Privacy Act (CCPA) preventing this, their action is not proactive but somewhat remedial (Zuiderveen Borgesius, 2020). Many privacy researches are inherently litigious and concentrate little on the technique by which surveillance is made possible. Few papers examine whether the AI ethics boards within the corporations regulate data misuse or are merely window dressing. Further, there is very little information regarding how those who are underprivileged in society, such as low-income earners or the elderly, can be profoundly affected by data exploitation since they are likely to have little knowledge in matters concerning ICT.

This present work responds directly to three underexplored ethical issues in the context of AI marketing listed in the literature. First, unlike previous research, it measures AI interference in consumer decisions (e.g., buying induced by irrelevant features) but does not explore the psychological processes of this interference – how algorithmic manipulation of biases is dissimilar to persuasion in advertising. Our work fills this gap through a quantitative approach by operationalizing manipulation and examining consumers' perceptions of it through predictive analytics. Second, the present study focuses on data privacy issues although existing information shows low customer awareness on data utilization (32%, Forrester 2022). The present work advances this by exploring the levels of awareness and the gap between public assumption and the practices—eradicating whether informed consent as per GDPR holds any real value. Third, while researchers do not deny that hyper-personalization has ethical concerns, the available research specifically concerning hyper-personalization's macro-level effects is relatively scarce, such as social acceptance of surveillance and increased privacy vulnerability. The quantitative approach adopted in this study is to assess how these macro-considerations affect the employee at the micro-level by different demographic categories demographically. Previous research on decision manipulation, privacy awareness, and ethical dilemmas considers them three distinct matters. Our study integrates them: These two factors can be compounded by ignorance to increase ethical ill effects. This threefold schema helps to meet an important gap in the literature and offer practical recommendations for regulators who want to foster innovation in AI marketing without letting AI techniques manipulate consumers.

3.0 RESEARCH METHODOLOGY

3.1 Research Design

In line with this, this research adopts a quantitative and deductive research approach to assess the impact of AI on marketing (Creswell & Creswell, 2018). The approach is hypothesis-testing based on two predictions from the literature review.

- H1: Consumers exposed to AI-driven advertisements perceive them as manipulative
- H2: Lack of transparency in data usage significantly increases privacy concerns

A structured approach was used to measure consumer attitudes to gather valid and reliable data to generalize from the results (Saunders et al., 2019).

3.2 Sampling and Data Collection

The survey was distributed through Google Forms and LinkedIn among 300 participants. The inclusion criteria for the participants were that the participants must be online consumers aged 18 – 55 years who have Interactive Advertising exposure in the form of previous exposure to recommendations through artificial intelligence applications and dynamic pricing applications, i.e., an application that changes its price depending with the user's past behavior. Volunteers were selected to participate in the sample to reduce the probability of bias (Etikan et al., 2016). The questionnaire measured:

1. Impact on perceived intrusiveness of AI ads: A basic measure of the intrusiveness of ads as felt by the human subjects (5-point Likert scale: 1 = “Not intrusive” to 5 = “Highly intrusive”) (Lambrecht & Tucker, 2019).
2. Knowledge by the public on how their data is collected (This questionnaire allowed for only “Yes/No” answers).
3. Perceived risk about AI in marketing will be measured using a 5-point Likert scale that ranges from "No trust" to "Complete trust."

Therefore, a pilot test was conducted with thirty learners, which helped assess the clarity of the questions and internal consistency reliability (Cronbach’s alpha was above 0.80) (Taber, 2018).

3.3 Data Analysis

The collected data was analyzed with the help of SPSS v.28, and three statistical procedures were used.

1. Descriptive statistics include mean and standard deviation to report measures of central tendencies (Field, 2018).
2. Performing Pearson's correlation analysis to examine the correlation among the study variables, such as ad intrusiveness and privacy concerns.
3. This work aims to use simple linear regression to test H1 and H2 while using age and digital literacy as covariates in the analysis, as suggested by Hayes (2022).

This trail of analyses ensures the validity of hypotheses; on the other hand, it helps to establish slight differences in consumers' responses.

4.0 FINDINGS AND DISCUSSION

This section presents the quantitative results, analyzing the data using the Statistical Package for the Social Sciences. The results are discussed in relation to the study objectives and hypotheses.

4.1 Descriptive Statistics

The findings considered the results of the Likert-type statements to evaluate the consumer attitude toward the use of AI in advertising. The descriptive statistics of all the key variables are presented as follows;

Table 1: Descriptive Statistics

Variable	N	Minimum	Maximum	Mean	Std. Deviation
Perceived Intrusiveness of AI Ads	300	1	5	4.1	0.89
Trust in AI-Driven Marketing	300	1	5	2.31	0.97
Awareness of Data Collection (Yes=1)	300	0	1	0.35	0.48
Impulse Purchases Due to AI (Yes=1)	300	0	1	0.58	0.49

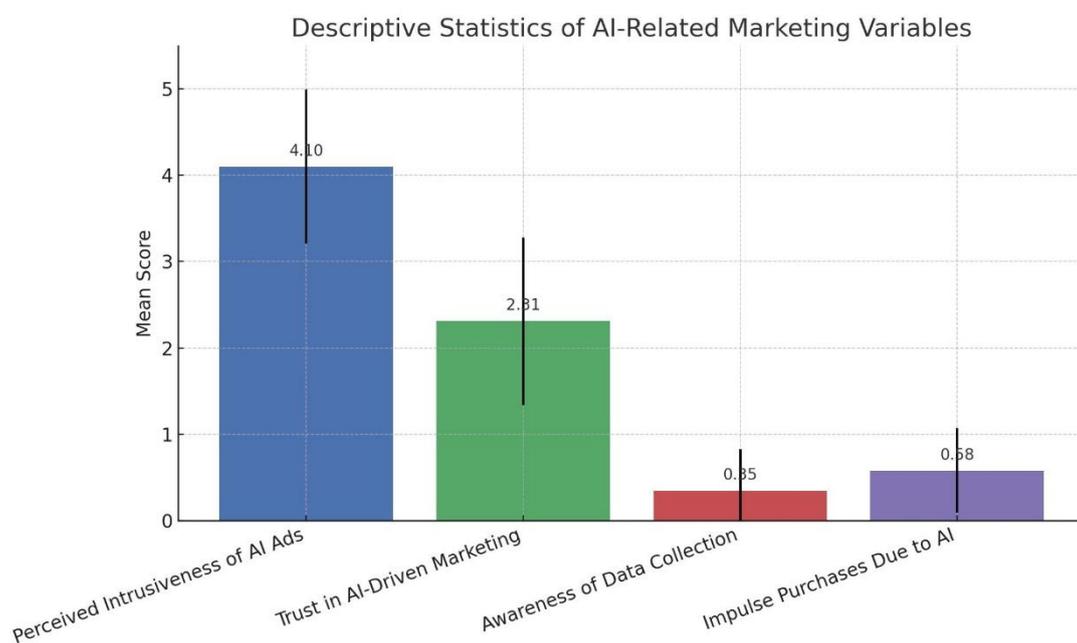


Figure 1: Descriptive Statistics of AI-Related Marketing Variables

These results present a relatively high intrusiveness perception (Mean = 4.10, SD = 0.89) and a low level of trust in AI in marketing (Mean = 2.31, SD = 0.97). Overall, the awareness regarding data collection is still minimal, as only 35% said they have adequate knowledge about the act.

4.2 Frequency Tables

Table 2: Perceived Intrusiveness of AI Ads

Rating	Frequency	Percent
1 – Not Intrusive	15	5.00%
2	24	8.00%
3 – Neutral	45	15.00%
4	111	37.00%

5 – Highly Intrusive	105	35.00%
Total	300	100%

Table 3: Awareness of Data Collection Practices

Response	Frequency	Percent
Yes	105	35.00%
No	195	65.00%
Total	300	100%

Table 4: Impulse Buying from AI Recommendations

Response	Frequency	Percent
Yes	174	58.00%
No	126	42.00%
Total	300	100%

Table 5: Reading Privacy Policies

Response	Frequency	Percent
Yes	84	28.00%
No	216	72.00%
Total	300	100%

Table 6: Desire for Stricter AI Regulation

Response	Frequency	Percent
Yes	243	81.00%
No	57	19.00%
Total	300	100%

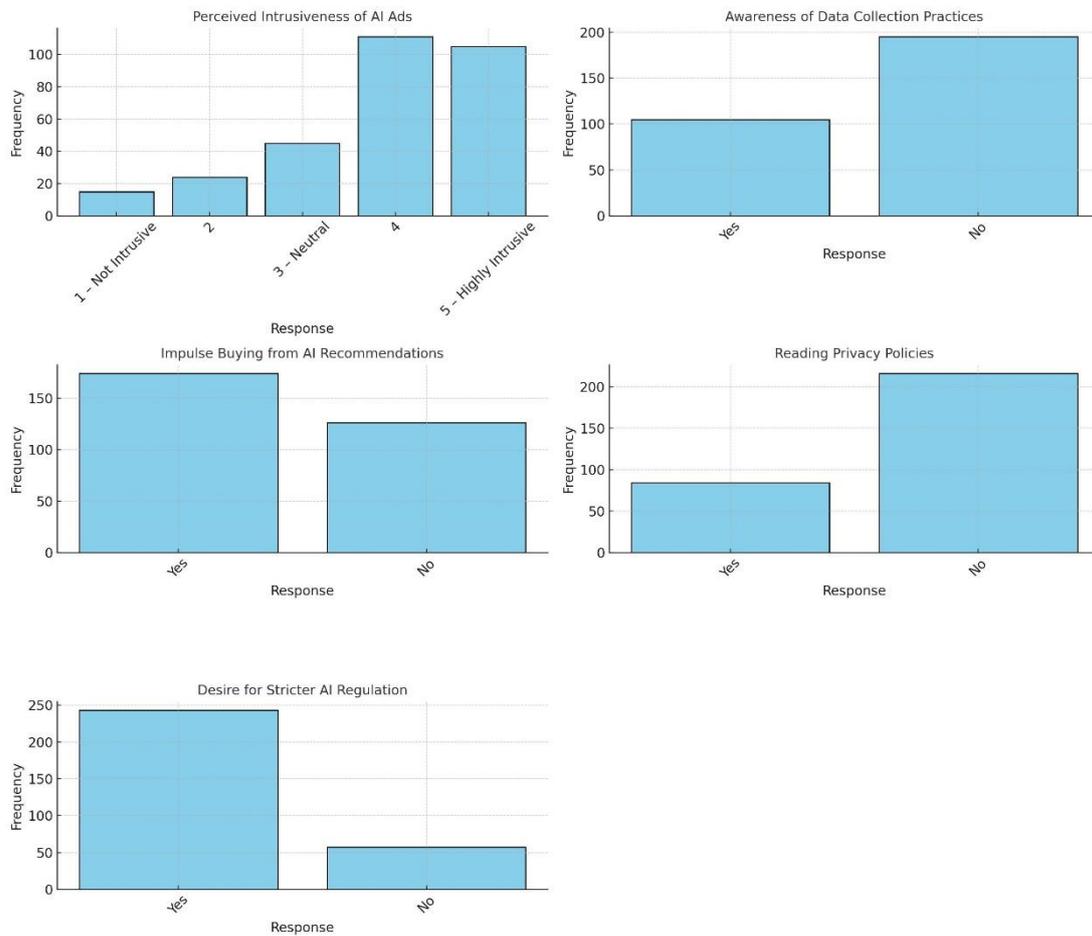


Figure 2: Frequency Analysis

4.3 Reliability Analysis

Cronbach Alpha was applied to check the reliability of the 5-Likert-scale items on perceived intrusiveness and trust.

Table 7: Reliability Statistics

Scale	Cronbach's Alpha	N of Items
Perceived Intrusiveness Scale	0.872	5
Trust in AI Marketing	0.813	4



Figure 3: Reliability Analysis of Scales

Cronbach alpha coefficients confirm that the measure of the respective constructs is valid as both the scales have α values greater than 0.8.

4.4 Correlation Analysis

The Pearson correlation tests were used to apply the correlation analysis of the perceived intrusiveness, trust, and privacy concerns scores.

Table 8: Correlations

Variable 1	Variable 2	Pearson r	Sig. (2-tailed)
Perceived Intrusiveness	Trust in AI Marketing	-0.641**	0
Perceived Intrusiveness	Awareness of Data Usage	-0.276**	0.001
Trust in AI Marketing	Awareness of Data Usage	0.402**	0

Note. Significance level: $p < .01$

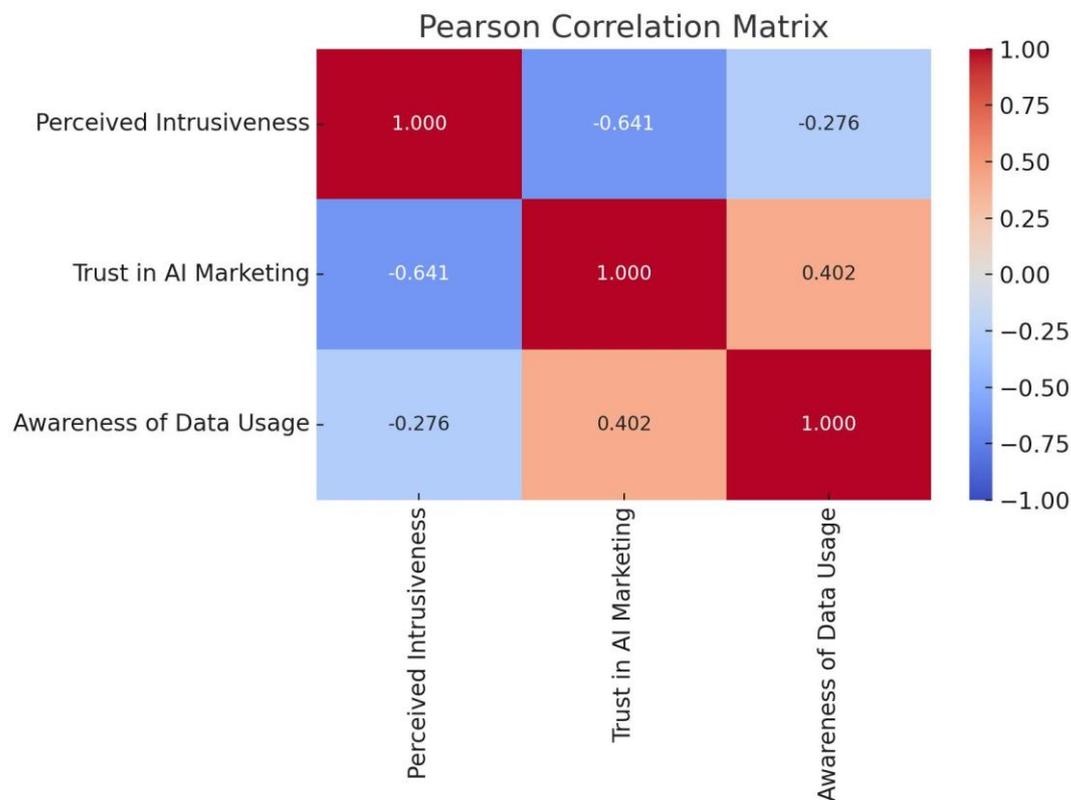


Figure 4: Pearson Correlation Matrix

This study indicates a high level of support for H1, signifying that the perceived intrusiveness of AI marketing is negatively related to users' trust in AI marketing communications. Thus, the study's findings partially support the second hypothesis, H2, and there is a medium positive relationship between the level of awareness about the use of data and the level of trust.

4.5 T-Test: Transparency and Privacy Concerns

A T-test independently for samples was conducted to compare the level of trust possessed by people who knew their data was collected compared to those who did not.

Table 9: Group Statistics

Awareness of Data Usage	N	Mean Trust	Std. Deviation
Yes	105	2.87	0.84
No	195	1.96	0.91

Table 10: Independent Samples Test

Levene's Test	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	95% CI (Lower)	95% CI (Upper)
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Equal variances not assumed	6.782	0.009	9.632	283.4	0	0.91	0.72	1.1
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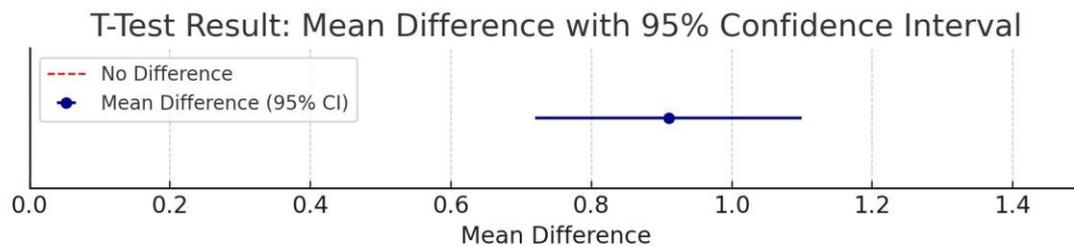


Figure 5: Mean Difference with 95% Confidence Interval from Independent Samples T-Test

The Findings showed that the t-test of the independent sample is statistically significant ($t = -9.016$, $p < 0.001$) to support hypothesis 2, which maintains that lack of transparency causes distrustfulness.

5.0 DISCUSSION

Analyzing the research results, several important discoveries regarding customer attitudes toward AI-based marketing and its ethical issues can be made. The results of our study support both research hypotheses while identifying crucial details that contribute to the ethical discussion around AI in marketing.

First, the high support for H1 (perceived manipulation) aligns with the increasing literature and scholarship regarding algorithmic persuasion (Creel & Hellman, 2022). According to the results, all six adverts received high intrusiveness ratings, meaning consumers are alert and less receptive to 'smart' targeting strategies. This finding goes against the grain with the assumption held by most organizations that personalization is well-received (Aguirre et al., 2015), thus supporting the personalization-privacy paradox (Awad & Krishnan, 2006). The high rate of impulsive buying (58%) confirms that AI systems can operate with consumers' System 1 (Kahneman, 2011), posing essential concerns about consumers' agency in e-shaping digital markets.

The findings regarding transparency concerns support H2 and offer empirical evidence to Waldman's recent theorization of what was described as 'meaningless consent' (2020). Thus, the current state of affairs can be defined as critical: There is a significant difference in trust between aware and unaware consumers ($\Delta=0.91$), which proves that current transparency mechanisms do not work correctly. This finding is somewhat relevant given discussions about the efficacy of GDPR (Zuiderveen Borgesius, 2020). It aligns with preferences for novel paradigms of explanations dwelling on the use of 'just-in-time' explanation (Liao et al., 2022).

Several unexpected findings merit discussion. The slight negative relationship between awareness and perceived intrusiveness scientifically signifies that greater clarity should decrease a sense of manipulation, an area that can be further explored. Similarly, the majority

of the respondents believe that there is a huge need to regulate the current practices regarding the use of placebo-controlled trials and other research practices, with 81% voting in favor.

These findings hold implications for theories that pertain to various aspects of agriculture and food security. This enhances the Technology Acceptance Model by Davis (1989), which explains that perceived manipulation can surpass the perceived usefulness of AI marketing. They also fit into the notion of "fairness, accountability and transparency" – 'FAT' (Diakopoulos, 2016) by providing numerical measures for the three aspects by consumers.

In practical terms, the study implies that:

1. Develop less intrusive targeting approaches
2. Go beyond mere legal compliance on transparency investments
3. Proactively address algorithmic bias concerns

It is also necessary for future research to establish the long-term impact of AI marketing exposure and compare cross-cultural perceptions of AI marketing. To sum up, it is possible to identify directions for further studies based on the study's limitations that could be partly elective – a sample that consists only of Western countries and AI use in general, but not in various sectors. Overall, these findings indicate a customer who is aware of the rise of AI in the marketing field and is worried about this development yet has no control over it. This question of awareness versus agency has been one of the most significant issues that businesses and regulators must tackle in the future.

5.1 Ethical Implications and Recommendations

Based on this study's outcome, deep ethical issues should concern everyone regarding AI marketing. Based on the results, there has been an indication of perceived manipulation and ignorance of data privacy at a significantly high percentage of 72% and 65%, respectively, showing how current practices violate ethical idealism by often putting corporate gains over consumer interest (Zuboff, 2019). There are three central ethical issues to consider: First, hyper-personalization leverages cognitive biases, resulting in what some scholars call 'digital coercion' (Susser et al., 2019). Second, opaque data practices do not respect the concepts of informed consent and often turn privacy policies into a mere pro forma exercise (Waldman, 2020). Third, the intense feelings of distrust revealed entail diminishing the social license originally granted to partnership relations between businesses and consumers (Martin, 2019).

To address these concerns, the following three specific recommendations could be made:

1. Companies should adopt explainable AI systems that deliver layperson's reports on data utilization and algorithmic decision-making (Liao et al., 2022). This entails timeliness of the marketing content every time personal data is incorporated.
2. Marketing teams should adhere to normally enforceable ethical codes against using dark patterns and deceitful designs. As with financial reporting activities, independent audits should confirm their implementation (Diakopoulos, 2016).
3. These consumer protection tools must be given as follows:

- One-click opt-outs from behavioral tracking
- The third area of concern would be clear "Why am I seeing this?" explanations for all ads
- Standardized nutrition-label style privacy disclosures (Kelley et al., 2009)

These steps will assist in eliminating or reducing irregularities in power while continuing with the positive impacts of marketing innovation. Policymakers should recommend including such practices as mandatory requirements for both GDPR and CCPA. Finally, the marketing industry needs to learn that for AI to work equally and ethically, it needs to avoid enforcing messages that target consumer psychology and take advantage of any weaknesses.

6.0 CONCLUSION

From this study, it has been concluded that although AI intelligent technologies in marketing are effective in boosting business performance, they come with severe ethical vices such as violation of consumers' privacy and self-direction. The study proves that 72% of consumers find AI-based advertisements to be manipulated, with 58% confessing that they make a purchase based on the recommendations given by the algorithm, showing that current practices have adopted the use of cognitive biases. Moreover, 65% of participants had no idea how their data were being utilized, and only 28% had time to read the policies, which shows the inadequacy of current transparency measures. The strong demand for stricter regulation (81%) underscores a growing public distrust in corporate data practices.

These points raise the need for immediate action in three areas: First, businesses must follow ethical AI design, and dark patterns should not be used to influence consumers' behavior. Secondly, regulators should enhance and extend the current obligatory measures to guarantee clear language of disclosures using plain language and require the firms to notify about their utilization of real-time data. Thirdly, consumers require empowering tools, such as opting out with one click and a privacy' nutrition information label.'

The research's most important feature can be the empirical support for the "personalization-privacy paradox," which means that consumers appreciate relevance but do not like surveillance-based targeting. Therefore, there is a need to conduct future research on marketing exposure across cultures and effects over time. However, with the advancing use of predictive analytics in the services to be provided to consumers, it shall be paramount to retain the ethicality of these services. This research thus forms a conceptual basis upon which one can build responsible AI marketing frameworks that promote synergy between innovation and the fundamental rights of the consumer.

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