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AI-Driven Personalization: Impact on Consumer Trust and Purchase Behaviour

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ABSTRACT :

This study explores the impact of AI-driven personalization on consumer trust and purchase behaviour, with a specific focus on understanding how awareness of AI technologies and privacy concerns shape consumer decisions. Utilizing a quantitative research design, a sample of 501 respondents was selected through a non-probability convenience sampling method in North East India. A structured questionnaire, segregated into key sections including AI-Driven Personalization Awareness, Consumer Trust, Purchase Behaviour, Privacy and Ethical Concerns, and Satisfaction and Experience, was employed for data collection. The analysis employed Structural Equation Modeling (SEM) facilitated by AMOS software to achieve the objective. The findings reveal that AI-Driven Personalization Awareness, and Privacy and Ethical Concerns, positively influences consumer trust and purchase behaviour. Interestingly, while satisfaction with personalized experiences correlates with trust, it does not directly drive purchase decisions. The implications of this research suggest that businesses must prioritize consumer awareness and ethical practices in their AI-driven marketing strategies to build trust and enhance engagement. By doing so, organizations can effectively leverage AI personalization to optimize consumer relationships and drive sales. This study furnishes valuable insights to the evolving discourse on AI in marketing, emphasizing the need for responsible implementation to foster consumer confidence in the digital marketplace.

Keywords: Artificial Intelligence (AI), Personalized Marketing, Purchase Behaviour, Consumer Trust, SEM.

Introduction :

The rapid advancement of artificial intelligence (AI) has transformed numerous industries, with marketing being one of the most profoundly affected. AI-driven personalization, which utilizes algorithms to tailor product recommendations, ads, and content to individual consumers based on their data, has become a cornerstone of modern marketing strategies. By leveraging vast amounts of consumer data, companies can deliver highly relevant and customized experiences, leading to greater engagement and, ostensibly, enhanced purchase behaviour. However, this shift towards personalization raises critical questions about its effects on consumer trust, a key determinant of marketing success, and purchase behaviour, which are central to a brand's profitability.

Despite the growing prevalence of AI-driven personalization, its implications for consumer trust and purchase behaviour remain under-explored. Trust is a foundational element in marketing relationships, particularly in the digital environment where consumers often hesitate to share personal data. While personalized experiences can foster trust by meeting individual preferences, the use of AI to predict consumer behaviour can also evoke privacy concerns, potentially undermining that trust. Balancing personalization with ethical transparency and data protection is thus critical for firms looking to gain consumer trust without alienating their audiences.

Simultaneously, AI-driven personalization offers unique opportunities to influence purchase behaviour, potentially reshaping consumer decision-making. By delivering tailored recommendations that reflect a consumer's preferences and habits, AI has the power to drive unplanned purchases, enhance customer satisfaction, and increase brand loyalty. This study aims to examine the dynamics in marketing strategies and explore whether AI-driven personalization, consumer privacy and ethical concerns, and consumers satisfaction and experience impact consumer trust and purchase behaviour. Understanding these complex relationships is essential for companies seeking to implement AI personalization without compromising their relationship with consumers.

Problem Statement :

While AI-driven personalization promises to enhance consumer experiences and business outcomes, it simultaneously raises concerns about data privacy and ethical transparency. These concerns may erode the very trust that personalization aims to build. Additionally, how different consumer groups respond to AI personalization—whether it fosters engagement and purchase behaviour or triggers suspicion—remains unclear. Therefore, it is precarious to assess whether AI-driven marketing strategies truly benefit companies by driving consumer trust and purchase behaviour or if they create challenges that marketers must address.

Objective of the Study :

This research seeks to inspect the impact of AI-driven personalization on consumer trust and purchase behaviour.

Hypotheses :

- H1: AI-driven personalization awareness has a significant positive influence on consumer trust.
- H2: AI-driven personalization awareness has a significant positive influence on consumers' purchase intention.
- H3: Consumer privacy and ethical concerns has a significant positive influence on consumer trust.
- H4: Consumer privacy and ethical concerns has a significant positive influence on consumers' purchase intention.
- H5: Consumers satisfaction and experience has a significant positive influence on consumer trust.
- H6: Consumers satisfaction and experience has a significant positive influence on consumers' purchase intention.

Significance of the Study :

This research complements the growing body of literature on AI in marketing by providing empirical insights into the nuanced effects of AI-driven personalization on consumer behaviour. It addresses a gap in existing literature, which has often overlooked the importance of consumer trust and privacy concerns in the context of AI-driven marketing. By exploring the intersection of AI, trust, and purchase behaviour, this study offers practical implications for marketers aiming to leverage AI technology responsibly. Furthermore, it provides actionable insights into how transparency and ethical practices can mitigate privacy concerns, helping firms build stronger relationships with consumers.

The study's findings will also have important implications for marketing professionals and policymakers, who must manoeuvre the complex ethical landscape of AI to ensure consumer data protection while maximizing the benefits of personalized marketing.

Literature Review :

The advent of Artificial Intelligence (AI) has transmogrified the marketing landscape, particularly in the realm of personalization. AI-driven personalization in marketing refers to the use of machine learning algorithms and data analytics to tailor marketing messages, product recommendations, and customer experiences to individual consumers. This critical literature review examines the impact of AI-driven personalization on consumer trust and purchase behaviour, synthesizing findings from recent studies and identifying gaps in current research. The foundation of AI-driven personalization lies in its ability to process vast amounts of consumer data to generate insights and predict behaviours. Rust and Huang (2014) argue that this capability allows marketers to create highly targeted and relevant experiences for consumers. However, the effectiveness of these personalization can boost customer engagement and loyalty, potentially leading to multiplied purchase behaviour. Their study of 1,000 online shoppers found that personalized product recommendations resulted in a 35% increase in click-through rates and a 28% increase in conversion rates. These findings underscore the prospects of AI-driven personalization to positively impact consumer behaviour.

Trust transpired as a critical factor in the relationship between AI-driven personalization and consumer behaviour. Möhlmann and Henfridsson (2019) argue that trust in AI systems is fundamental to their acceptance and effectiveness in marketing contexts. Their qualitative study of 50 consumers interacting with AI-powered chatbots revealed that perceived fairness, accountability, and transparency were key determinants of trust. These findings align with those of Puntoni et al. (2021), who emphasize the worth of explainable AI in building consumer trust. However, both studies acknowledge the challenge of balancing the complexity of AI algorithms with the need for transparency, highlighting a significant area for potential research. The effect of AI-driven personalization on privacy concerns and their subsequent effect on trust and purchase behaviour is another crucial theme in the literature. Martin and Murphy (2017) argue that personalization creates a privacy paradox, where consumers desire personalized experiences but are simultaneously concerned about data privacy. Their meta-analysis of 51 studies on personalization and privacy found a significant negative correlation between privacy concerns and willingness to share personal information (r = -0.32, p < 0.001). This paradox poses a challenge for marketers seeking to implement AIdriven personalization strategies. Aguirre et al. (2015) further complicate this picture by demonstrating that the method of data collection significantly impacts consumer reactions to personalization. Their experimental study found that when consumers were explicitly informed about data collection, personalized advertisements were perceived as less intrusive and more effective compared to when data collection was covert. The Value-based Adoption Model (VAM) best explains consumer acceptance of AI-based intelligent products, with enjoyment and subjective norms being the most influential factors on purchase intention (Sohn & Kwon, 2020). Consumers' positive attitudes towards AI devices like Echo Look positively influence their Purchase Behaviour, with usefulness, ease of use, and performance risk being key factors (Liang et al., 2020). The role of AI in enhancing the perceived usefulness and ease of use of marketing interactions is another significant strand in the literature. Davis's (1989) Technology Acceptance Model (TAM) provides a theoretical framework for understanding how these factors influence consumer adoption of new technologies. Building on this, Venkatesh and Davis (2000) proposed an extended TAM (TAM2) that incorporates social influence processes and cognitive instrumental processes. Recent studies have incorporated these models to AI-driven personalization in marketing. For instance, Kang and Kim (2020) found that perceived usefulness and ease of use of AI-powered recommendation systems positively influenced Purchase Behaviour in e-commerce settings ($\beta = 0.43$ and $\beta = 0.38$ respectively, p < 0.001). However, their study was confined to a specific demographic (South Korean millennials), highlighting the obligation for more distinctive samples in future research.

The literature also explores the effect of AI-driven personalization on consumer emotions and their subsequent effect on purchase behaviour. Pappas et al. (2017) argue that personalization can evoke positive emotions such as joy and excitement, which in turn can lead to increased Purchase Behaviour. Their structural equation modeling study of 548 online shoppers discovered that positive emotions mediated the relationship between personalization and Purchase Behaviour (indirect effect = 0.21, p < 0.01). However, Luo et al. (2019) caution that overly invasive personalization can lead to negative emotions such as frustration and anger, potentially damaging brand perceptions and reducing Purchase Behaviour. These conflicting findings suggest a need for more nuanced research into the emotional impact of AI-driven personalization. The ethical implications of AI-driven personalization represent an emerging area of concern in the literature. Susser et al. (2019) argue that personalized marketing powered by AI has the potential to be manipulative, raising questions about consumer autonomy and informed decision-making. Their conceptual paper calls for a re-evaluation of marketing ethics in the age of AI, suggesting that traditional notions of consumer choice may need to be reconsidered. This perspective is echoed by Zuboff (2019), who warns of the potential for "surveillance capitalism" enabled by AI-driven personalization. While these critiques raise noteworthy ethical questions, there is a notable lack of empirical research examining the long-term societal impacts of AI-driven personalization in marketing.

Thus, the literature on AI-driven personalization in marketing reveals a complex interplay between technology, consumer psychology, and business strategy. While there is evidence to suggest that personalization can positively impact consumer trust and purchase behaviour, concerns about privacy, transparency, and ethics present significant challenges. Future research should focus on developing additional comprehensive models that account for the multifaceted nature of AI-driven personalization and its impacts. Longitudinal studies examining the long-term effects of personalization on consumer behaviour and trust would be particularly valuable. Additionally, cross-cultural studies could provide insights into how different societal norms and values influence reactions to AI-driven personalization. As AI technology continues to evolve, ongoing research will be crucial in guiding ethical and effective implementation of personalization strategies in marketing.

Research Method :

The study employs a quantitative research design to investigate the effect of AI-driven personalization on consumer trust and purchase behaviour. A sample of 501 respondents was selected using a non-probability convenience sampling method, covering diverse demographic profiles from North East India. The structured questionnaire was formulated based on the definition of the terms employing a 5-point Likert scale, and the questionnaire was pre-tested on 50 respondents to ensure validity and clarity. Data collection was completed through both online and face-to-face surveys. Exploratory factor analysis (EFA) was performed to group the items into different meaningful constructs, and Structural Equation Modeling (SEM) was utilized for analyzing the data through AMOS software which includes confirmatory factor analysis (CFA), and path analysis to assess relationships between the variables. Goodness-of-fit indices and reliability tests, such as Cronbach's alpha, were conducted to ensure the robustness of the findings. Ethical considerations were strictly adhered to, with informed consent obtained from all respondents and their anonymity preserved.

Results :

To comprehensively evaluate the theoretical framework of the study, an EFA was performed to group items into different extractable constructs and SEM was employed on the constructs to attain the objective. SEM is a robust analytical technique widely used in various research disciplines (Hair et al., 2021). SEM combines multiple multivariate analysis methods, making it ideal for examining the relationships among numerous variables. This method integrates component analysis and multiple regression analysis to assess the structural links between observed variables and latent constructs. Path models based on regression visually represent the relationships between the study's hypotheses and the theoretical variables to be measured (Chao & Yu, 2023). AMOS was deemed appropriate for evaluating model validity and confirming the conceptual structures (Trivedi et al., 2018). According to Hair et al. (2021), SEM is comprised of two main components: the measurement model and the structural model whereby, the former model outlines the relationships between the latent constructs and their respective indicators, focusing on the strength and accuracy of these associations. In contrast, the structural model, which is grounded in the theoretical framework of the research, specifies how constructs influence the hypothesized relationships.

Exploratory Factor Analysis (EFA) and Reliability :

Given that the questionnaire was developed based on an in-depth understanding of the relevant concepts and constructs from the literature, EFA was conducted to validate the factor structure and appropriately group the items into distinct variables. EFA is a widely used statistical technique that helps identify the underlying relationships among measured constructs by detecting patterns within the data. In this study, EFA was instrumental in determining how the questionnaire items effectively loaded onto separate, coherent factors. The analysis ensured that the items grouped together based on shared variance, confirming that they measured the same latent constructs. Through this process, EFA provided a robust empirical basis for confirming the initial conceptual framework, allowing for the identification of clear and distinct variables, viz., AI-Driven Personalization Awareness, Consumer Trust, Purchase Behaviour, Privacy and Ethical Concerns, and Satisfaction and Experience. The resulting factor structure not only aligned with the theoretical understanding of the constructs but also optimized the questionnaire's reliability and validity, setting the stage for further analysis using Confirmatory Factor Analysis (CFA) and SEM. Also, reliability of the questionnaire has been ascertained through Cronbach alpha as highlighted in table 1.

| Table | 1 - | EFA | and | Reliability | Scores |
|-------|-----|-----|-----|-------------|--------|
| Table | 1 - | LIA | anu | Renability | BUILS |

| Constructs identified upon EFA | Items | Factor Loadings | Cronbach's α |
|-------------------------------------|-------|-----------------|--------------|
| AI-Driven Personalization Awareness | 2 | 0.893 - 0.900 | 0.770 |
| Consumer Trust | 4 | 0.729 - 0.787 | 0.797 |
| Purchase Behaviour | 3 | 0.867 - 0.912 | 0.879 |
| Privacy and Ethical Concerns | 3 | 0.880 - 0.895 | 0.910 |

| Satisfaction and Experience | 2. | 0 886 - 0 888 | 0.739 |
|--|----|---------------|-------|
| Source: Author's estimation through SPSS | | | |

Confirmatory Factor Analysis (CFA) :

Before conducting path analysis, the validity and reliability of the model were assessed through the measurement model using CFA in AMOS v21, following established guidelines (Hair et al., 2010). The fitness indices ($\chi 2 = 102.091$; $\chi 2/df = 1.524$; RMSEA = 0.032; CFI = 0.989; SRMR = 0.028; PClose = 0.993) indicated a good fit, as they fell within acceptable thresholds (Lin & Wu, 2004). To ensure reliability and validity, factor loadings, composite reliability, average variance extracted (AVE), and Cronbach's alpha were evaluated. The factor loadings ranged from 0.729 to 0.912, meeting the threshold of 0.60 (Hair et al., 2017). Cronbach's alpha values ranged from 0.739 to 0.910, exceeding the recommended 0.7 level (Hair et al., 2010). Composite reliability ranged from 0.842 to 0.918, and AVE from 0.572 to 0.803, both surpassing the required thresholds of 0.5 each (Cheung et al., 2024; Fornell & Larcker, 1981). Thus, the model demonstrated strong reliability and convergent validity, as detailed in table 2.

In addition to testing for reliability and convergent validity, discriminant validity was also assessed to ensure that the constructs in the model were sufficiently distinct from each other. Discriminant validity was evaluated by comparing the square root of the average variance extracted (AVE) for each construct with the corresponding inter-construct correlations, following the method outlined by Fornell and Larcker (1981). The results confirmed that the square root of the AVE for each construct was greater than the correlations between constructs, indicating that the constructs were empirically distinct. This demonstrates that the measurement model not only captured the intended constructs but also adequately distinguished between them, thereby supporting the discriminant validity of the model. Consequently, the measurement model was confirmed to be both reliable and valid for further analysis. **Table 2 – Convergent and Discriminant Validity Scores**

| | CR | AVE | СТ | PA | PB | PEC | SE |
|-----|-------|-------|----------|---------|----------|-------|-------|
| СТ | 0.842 | 0.572 | 0.756 | | | | |
| PA | 0.891 | 0.803 | 0.159* | 0.896 | | | |
| PB | 0.917 | 0.786 | 0.316*** | 0.185** | 0.886 | | |
| PEC | 0.918 | 0.788 | 0.574*** | 0.069 | 0.169*** | 0.888 | |
| SE | 0.880 | 0.786 | 0.175** | 0.059 | 0.033 | 0.022 | 0.887 |

Source: Author (From Gaskin's tool AMOS v21)

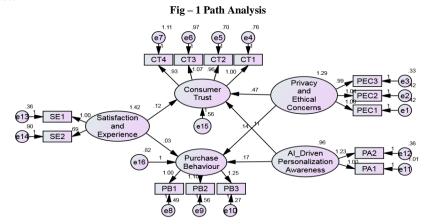
Note: Bold values represent square root of AVE and the lower diagonal values represent correlation among constructs.

Structural Equation Modeling (SEM)

After confirming the reliability and validity of the measurement model, the data was employed to analyze the paths in accordance with the study's proposed hypotheses, aiming to estimate the path relationships among the constructs. The structural model demonstrated satisfactory fit indices ($\chi 2 = 124.265$; $\chi 2/df = 1.750$; RMSEA = 0.039; CFI = 0.983; SRMR = 0.054; PClose = 0.951), aligning with the recommended thresholds (Hair et al., 2010). The path analysis as highlighted in figure 1 revealed that AI-Driven Personalization Awareness ($\beta = 0.113$, t = 2.467) Privacy and Ethical Concerns ($\beta = 0.471$, t = 10.780) and Satisfaction and Experience ($\beta = 0.123$, t = 2.408) exerted significant positive effects on Consumer Trust. Also, AI-Driven Personalization Awareness ($\beta = 0.170$, t = 3.398) and Privacy and Ethical Concerns ($\beta = 0.142$, t = 3.532) exerted significant positive effects on Purchase Behaviour with Privacy and Ethical Concerns identified as the most influential factor for both Consumer Trust and Purchase Behaviour. Conversely, Satisfaction and Experience ($\beta = 0.028$, t = 0.693) was found to have insignificant impact on Purchase Behaviour. Consequently, Hypotheses (H1, H2, H3, H4 and H5) were accepted, while Hypothesis H6 was rejected, as illustrated in Table 3.

| Table – 3 Path Analysis Results | | | | | | |
|---------------------------------|----------------------|------------------|---------|---------|----------|--|
| Hypotheses | Path Relation | Path Coefficient | t-value | p-value | Decision | |
| H1 | PA → CT | 0.113 | 2.467 | 0.014 | Accepted | |
| H2 | PEC \rightarrow CT | 0.471 | 10.780 | *** | Accepted | |
| H3 | SE \rightarrow CT | 0.123 | 2.408 | 0.016 | Accepted | |
| H4 | $PA \rightarrow PB$ | 0.170 | 3.398 | *** | Accepted | |
| Н5 | PEC \rightarrow PB | 0.142 | 3.532 | *** | Accepted | |
| H6 | $SE \rightarrow PB$ | 0.028 | 0.693 | 0.488 | Rejected | |

Abbreviations: CT- Consumer Trust, PA- AI-Driven Personalization Awareness, PB- Purchase Behaviour, PEC- Privacy and Ethical Concerns, SE-Satisfaction and Experience.



Discussion :

The outcome of this study provide critical insights into the role of AI-driven personalization in shaping consumer trust and purchasing behaviour. The results indicate that AI-Driven Personalization Awareness, Privacy and Ethical Concerns, and Satisfaction and Experience are significant predictors of Consumer Trust, with path coefficients of 0.113, 0.471 and 0.123 respectively. This suggests that heightened awareness of AI-driven personalization positively influences consumer trust, which aligns with existing literature emphasizing the importance of transparency and consumer engagement in digital marketing strategies (Lemon & Verhoef, 2016). The substantial impact of Privacy and Ethical Concerns also underscores the necessity for brands to prioritize ethical data practices and ensure that consumers feel secure regarding their personal information. Moreover, Satisfaction and Experience can play a significant role in building a consumers' brand loyalty.

The positive relationship between AI-Driven Personalization Awareness and Purchase Behaviour further corroborates the notion that informed consumers are more likely to engage with personalized marketing efforts. It highlights that as consumers become more aware of AI-driven personalization, their likelihood of making a purchase increases. This finding supports the hypothesis that personalized experiences can enhance consumer engagement and drive purchasing decisions (Chandra et al., 2022). Moreover, privacy and ethical concerns significantly predict purchase behaviour indicating that consumers are becoming more mindful of how their data is handled and the ethical practices of businesses. This underscores the need for companies to prioritize transparency, data security, and responsible practices to foster consumer trust and positively influence purchasing decisions.

Interestingly, while Satisfaction and Experience showed a significant relationship with Consumer Trust, its effect on Purchase Behaviour was not statistically significant, with a path coefficient of only 0.028. This finding raises important questions about the nuances of consumer decision-making processes. It suggests that while consumers may feel satisfied with personalized experiences, this satisfaction does not necessarily translate into immediate purchasing actions. This distinction indicates that marketers may need to look beyond satisfaction metrics and explore additional factors that could more directly influence purchase behaviours.

Additionally, the confirmation of Hypotheses 1, 2, 3, 4, and 5, while rejecting Hypothesis 6, reflects the complex interplay of these constructs within the context of AI-driven personalization. The findings reinforce the idea that ethical considerations in AI applications are paramount for fostering trust, which is a crucial precursor to consumer engagement and purchasing behaviour. Thus, organizations should focus on enhancing consumer awareness of AI technologies while maintaining rigorous ethical standards in their data practices. Overall, present study contributes to the growing body of literature on AI-driven personalization by elucidating its impacts on consumer trust and behaviour. It emphasizes the need for companies to adopt transparent practices and engage with consumers to build trust, ultimately fostering a conducive environment for effective personalization strategies. Future research can further explore the dynamics of these relationships across different consumer demographics and industry contexts to deepen our comprehension of AI's role in consumer behaviour.

Managerial Implications :

The results of the study yield several important managerial implications for businesses leveraging AI-driven personalization strategies. Firstly, companies should prioritize enhancing AI-Driven Personalization Awareness among consumers, as increased awareness significantly boosts consumer trust and engagement. This can be achieved through transparent communication about how AI is utilized and the benefits it offers. Secondly, organizations must address Privacy and Ethical Concerns by implementing robust data protection measures and ethical guidelines, ensuring that consumers feel secure in their interactions. This commitment not only fosters trust but also enhances the likelihood of positive purchase behaviour. Additionally, managers should recognize that while consumer satisfaction with personalized experiences is vital, it may not directly lead to purchasing decisions. Therefore, businesses should develop comprehensive strategies that not only enhance satisfaction but also actively encourage consumers to convert their positive experiences into actionable purchase behaviour. By focusing on these areas, organizations can optimize their AI-driven marketing efforts, build stronger consumer relationships, and ultimately drive sales growth.

Conclusion :

The study highlights the significant impact of AI-driven personalization on consumer trust and purchase behaviour. The findings demonstrate that increased awareness of AI personalization, the management of privacy and ethical concerns, and satisfaction and experience are crucial for fostering consumer trust, which in turn influences purchasing decisions. While satisfaction with personalized experiences plays a role in enhancing trust, it does not directly translate into purchase behaviour. Therefore, businesses must adopt transparent practices and prioritize ethical considerations in their AI applications to effectively engage consumers. These insights provide a valuable framework for organizations aiming to employ the power of AI-driven personalization in a responsible and consumer-focused manner, ultimately driving both trust and sales. Future research should continue to explore these dynamics across different contexts to further enrich our understanding of consumer behaviour in the digital age.

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