

Enhancing E-Commerce Customer Acquisition Through Trust, Customer Engagement, Transparent Data Policies, and AI-Driven Experiences

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(Received 24 December 2024; Revised 26 March 2025; Accepted 13 July 2025; Available online 2 August 2025)

Abstract - Enhancing customer acquisition in e-commerce requires a strategic blend of trust, customer engagement, transparent data policies, and AI-driven experiences. This study aims to explore how these factors collectively influence consumer decision-making and brand loyalty. The research objectives include assessing the impact of trust and transparency on first-time purchases, evaluating AI's role in personalization and customer retention, and understanding engagement strategies that drive acquisition. A quantitative research design using Structural Equation Modeling (SEM) was employed to measure factor relationships. Data were gathered from a diverse group of 400 e-commerce consumers, representing various age groups and online shopping behaviours. The findings suggest that AI personalization and chatbot efficiency play significant roles in enhancing customer engagement. Price transparency and policy clarity were found to strongly influence consumer trust. Brand reliability was identified as a crucial factor in fostering long-term relationships. While customer engagement has an impact, trust and AI-driven personalization emerged as stronger drivers of acquisition. The study recommends enhancing AI-driven chatbots, improving transparency in pricing, and focusing on trust-building initiatives to optimize customer acquisition strategies. Limitations include a geographically constrained sample and potential self-reporting biases. Future research could explore industry-specific applications and examine cross-cultural differences in customer acquisition strategies, further refining digital commerce models for sustainable growth.

Keywords: Customer Acquisition, AI-driven Personalization, Transparency, Trust and Relationships, Customer Engagement, E-commerce Strategies

I. INTRODUCTION

E-commerce has transformed the way consumers shop, offering unparalleled convenience, variety, and personalized experiences. With global e-commerce sales expected to surpass \$7 trillion by 2025, brands are competing aggressively to acquire and retain customers. However, as digital transactions increase, so do concerns about data privacy, AI-driven decision-making, and brand authenticity. Building trust and relationships (TR), ensuring transparency (T), leveraging AI-driven solutions (AI), and fostering customer engagement (CE) have become critical to customer acquisition (CA). Consumers today are not just looking for products; they seek secure, personalized, and interactive shopping experiences that align with their values. AI has redefined the e-commerce experience by enabling

personalized recommendations, predictive analytics, chatbots, and automated support. Advanced algorithms analyze user behaviour and preferences to create seamless and engaging shopping journeys. Industry giants like Amazon and Alibaba leverage AI to enhance product discovery and improve conversion rates. However, while AI boosts efficiency, many consumers express concerns about data privacy, algorithmic bias, and lack of transparency, making ethical AI practices essential for customer trust and long-term retention.

Transparency plays a crucial role in shaping consumer trust and purchase decisions. Modern shoppers demand clear pricing, easy return policies, and ethical data usage. Studies reveal that 81% of consumers prefer brands they trust, while 60% abandon carts due to unclear policies. Without transparency, even the most advanced AI or engagement strategies fail to convert visitors into loyal customers. Clear, honest, and open communication fosters a sense of security, ultimately driving customer acquisition.

Customer engagement acts as the bridge between brand visibility and customer acquisition. Interactive strategies such as gamification, influencer marketing, loyalty programs, and AI-powered chatbots enhance brand involvement. However, engagement alone does not ensure acquisition; it must be combined with trust, transparency, and AI-driven personalization to build lasting customer relationships. Brands that integrate AI-driven personalized interactions with transparent business practices and trust-building efforts witness higher retention rates and lower cart abandonment.

This research focuses on online shoppers, digital marketers, e-commerce startups, and industry leaders seeking to optimize their customer acquisition strategies through AI, transparency, and engagement-based models. It aims to bridge the gap between technology and trust while offering insights into data-driven consumer behaviours. The significance of this study lies in its ability to bridge the gap between advanced technologies and human-centric practices. By exploring the intricate relationships among AI solutions, trust, transparency, and engagement, this research provides actionable insights for e-commerce platforms aiming to thrive in a competitive landscape. With consumer expectations evolving rapidly, this study addresses a critical

need to understand and adapt to these changing dynamics. Ultimately, this research aspires to empower brands to not only meet but exceed customer expectations, building loyalty that stands the test of time.

II. LITERATURE REVIEW

A. AI-Driven Solutions (AI)

AI is reshaping e-commerce through chatbots, personalized recommendations, and predictive analytics, enhancing user experience and loyalty. Studies highlight the importance of chatbot quality (Shahzad *et al.*, 2024), AI personalization's role in customer satisfaction (Singh & Singh, 2024), and engagement through predictive analytics (Behera *et al.*, 2024). AI fosters deep user engagement (Acharya *et al.*, 2022), drives marketing strategies (Salah & Ayyash, 2023), and influences the fashion industry (Kang & Choi, 2024). AI-powered journeys create customer loyalty (Pandey *et al.*, 2024), while chatbot efficiency (Hsu & Lin, 2022) and AI's advertising impact (Suraña-Sánchez & Aramendia-Muneta, 2024) are crucial. AI's role in retention is pivotal (He & Liu, 2023).

B. Trust and Relationships (TR)

Trust is fundamental in e-commerce, driving repurchase intentions (Miao *et al.*, 2021) and fostering loyalty (Yuan *et al.*, 2020). Elements such as website quality (Qalati *et al.*, 2021) and emotional engagement through chatbots (Cheng *et al.*, 2022) promote trust. In emerging markets, trust helps overcome perceived risks (Jadil *et al.*, 2022), while it also enhances platform usefulness (Harrigan *et al.*, 2021) and moderates shopping values (Lee and Park, 2023). Privacy concerns (Putri *et al.*, 2023) and green supply chain practices (Jalil *et al.*, 2024) underscore the importance of transparency. Social media communication (Banerji and Singh, 2024) and trust in AI (Wang *et al.*, 2024) are also key.

C. Transparency (T)

Transparency is essential for trust and long-term engagement, reducing information asymmetry (Zhou *et al.*, 2018) and enhancing loyalty through clear pricing (Hanna *et al.*, 2019). Transparent communication promotes brand integrity (Cambier and Poncin, 2019) and supports purchase decisions (Tian *et al.*, 2022). Information transparency in tourism (Lin *et al.*, 2022) and variability in platform reporting (Urman and Makhortykh, 2023) are critical. Online reviews (Liu *et al.*, 2021) and outcomes-focused tactics (Geng, 2023) also foster trust. Product reliability transparency (Pei *et al.*, 2024) and consistency in communication (Sansome *et al.*, 2023) enhance engagement, as demonstrated in food delivery (Chopdar and Paul, 2023).

D. Customer Engagement (CE)

Customer engagement drives loyalty in e-commerce, with trust and community commitment being central (Vohra and

Bhardwaj, 2019). Social influence (Busalim *et al.*, 2020) and perceived value (Cao *et al.*, 2022) play key roles in engagement. Personalization (Busalim *et al.*, 2023) and interactivity (Japutra *et al.*, 2022) enhance both cognitive and emotional engagement. AI-driven personalization (Vashishth *et al.*, 2024) and omnichannel integration (Salem and Alanadoly, 2023) further drive engagement, while platform quality influences satisfaction (Savastano *et al.*, 2024). Virtual influencers also contribute to Generation Z's engagement (Lin *et al.*, 2024).

E. Customer Acquisition (CA)

Customer acquisition relies on targeted strategies such as competitive pricing (Kumar and Ayodeji, 2021) and secure payment systems (Lamrhari *et al.*, 2021). Social CRM frameworks (Schendzielarz *et al.*, 2022) and live-streaming interactivity (Zheng *et al.*, 2022) further boost acquisition. Digital marketing techniques (Ponzoa and Erdmann, 2021) and quality onboarding (Shastri and Khandelwal, 2024) are vital for customer retention. Machine learning (Shobana *et al.*, 2023) and blockchain (Sun *et al.*, 2022) also enhance retention. Product freshness (Liu *et al.*, 2023) and personalized promotions (Li *et al.*, 2024) serve as key acquisition drivers.

F. Literature Review Summary

The literature underscores the impact of AI-driven solutions, trust, transparency, customer engagement, and acquisition strategies on e-commerce loyalty. AI tools such as chatbots and personalized recommendations enhance operational efficiency and customer satisfaction. Trust, built through secure platforms, privacy, and sustainable practices, drives repurchase intentions. Transparency in pricing, product information, and policies fosters trust, aligns expectations, and enhances loyalty. Customer engagement is strengthened by omnichannel integration and personalized experiences. Acquisition strategies, including digital marketing and real-time analytics, ensure effective retention while attracting new customers. Integrating technology with human-centric approaches strengthens e-commerce success in competitive markets.

III. RESEARCH METHODOLOGY

This study employs a quantitative research design, utilizing a structured Google Form survey to collect primary data on consumer behaviour in e-commerce. The research focuses on Generation Z and Millennials residing in Bangalore, a demographic known for high digital engagement and frequent online shopping. The target population includes both students and working professionals, ensuring a diverse mix of respondents with varying purchasing power and shopping preferences. A convenience sampling technique was adopted, allowing the researchers to collect responses from individuals who were readily accessible and willing to participate in the study. This method enabled efficient data

collection while maintaining a broad representation of urban consumers who actively engage with e-commerce platforms.

The study's final sample size consists of 400 valid responses, ensuring a comprehensive dataset for analysis. Bangalore was chosen as the study area due to its status as a major metropolitan city with a dynamic and rapidly growing e-commerce market. The city's diverse and tech-savvy consumer base provides a valuable setting to explore how factors such as transparency in pricing, order updates, sustainability efforts, and digital trust influence purchasing decisions.

Additionally, the research examines various customer acquisition strategies-such as referral programs, discounts for first-time buyers, personalized onboarding experiences, and limited-time offers-to understand their impact on consumer preferences. By analyzing these elements, the study aims to provide meaningful insights into how e-commerce platforms can enhance customer trust, engagement, and loyalty while identifying external influences such as social media, advertising, and word-of-mouth recommendations in shaping online shopping behaviour.

A. Hypothesis

1. Customer Engagement

H1: Customer engagement positively influences customer acquisition in e-commerce.

H0: Customer engagement does not influence customer acquisition in e-commerce.

2. AI-Driven Technology

H2: AI-driven technology enhances customer acquisition in e-commerce.

H0: AI-driven technology does not significantly impact customer acquisition in e-commerce.

3. Trust and Relationship

H3: Trust and relationships positively impact customer acquisition in e-commerce.

H0: Trust and relationships do not impact customer acquisition in e-commerce.

4. Transparency

H4: Transparency in e-commerce transactions increases customer acquisition.

H0: Transparency in e-commerce transactions does not impact customer acquisition.

5. Customer Acquisition

H5: Effective customer acquisition strategies lead to higher customer retention in e-commerce.

H0: Customer acquisition strategies do not significantly affect customer retention in e-commerce.

B. Conceptual Framework

The conceptual framework presented in the image illustrates the key factors influencing customer acquisition (CA) in e-commerce. The framework hypothesizes four independent variables Customer- Engagement (CE), Trust and Relationship (TR), Transparency (T), and AI-Driven

Solutions (AI)- each having a direct impact on customer acquisition.

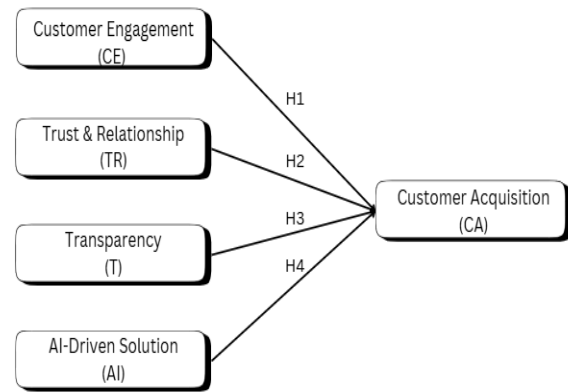


Fig.1 Conceptual Framework Model

These relationships are represented through hypotheses (H1, H2, H3, and H4), suggesting that higher engagement, stronger trust and relationships, increased transparency, and advanced AI-driven solutions contribute positively to acquiring customers.

This model aligns with the growing emphasis on personalized customer experiences, ethical business practices, and technological advancements in e-commerce. Through Structural Equation Modeling (SEM), the study aims to empirically validate these hypotheses and assess their significance in shaping customer acquisition strategies.

C. Data

1. Model Fit and Structural Equation Modeling (SEM)

Analysis: The Structural Equation Modeling (SEM) results indicate the relationships between customer engagement, trust and relationship, transparency, AI-driven solutions, and customer acquisition. The chi-square test for the SEM model yielded a value of 39,560,328, suggesting a reasonable but improvable fit. The Root Mean Square Error of Approximation (RMSEA) value of 0.0471 falls within the acceptable range (0.0403–0.0539), indicating a decent model fit.

These findings suggest that while the model adequately explains certain relationships, additional refinements are required to enhance overall model performance. The confidence intervals for RMSEA (0.0403–0.0539) suggest that the error in approximation is within a tolerable range.

Refinements could involve modifying pathways, introducing mediating or moderating variables, or improving measurement indicators. The following table summarizes the model fit indices:

TABLE I MODEL FIT AND STRUCTURAL EQUATION MODELING (SEM) ANALYSIS

Model	Chi-Square	DF	Prob>ChiSq	RMSEA	Lower 90%	Upper 90%
Unrestricted (Saturated)	41,905,824	350	0.0000	0.0000	0.0000	10.0000
Independence	39,430,456	50	1.0000	1.2731	0.0487	0.0541
SEM	39,560,328	154	0.0000	0.0471	0.0403	0.0539

IV. RESULTS AND DISCUSSION

A. Descriptive Analysis

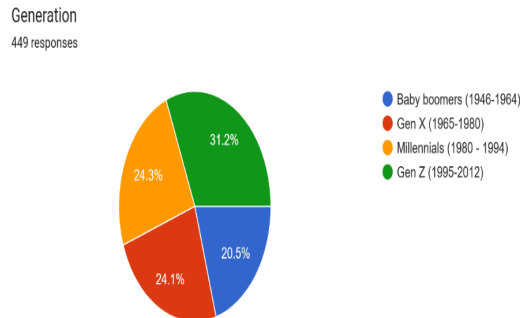


Fig.2 A Pie Chart Representing the Generational Distribution of Respondents

The generational distribution of respondents indicates a diverse demographic spread, with Generation Z (1995–2012) comprising the largest segment at 31.2%, followed by Millennials (1980–1994) at 24.3% and Generation X (1965–1980) at 24.1%. The lowest representation comes from Baby Boomers (1946–1964), accounting for 20.5% of the total sample. This distribution suggests that younger generations, particularly Millennials and Generation Z, dominate brand loyalty studies, as they form the largest consumer base engaging with digital platforms and e-commerce. Their brand loyalty behaviours are often shaped by digital experiences, personalized marketing, and peer influences, making them critical for understanding acquisition strategies.

B. Income Level Distribution

The income-level segmentation reveals that the highest proportion of respondents, 31.6%, earn less than 10K per month, indicating a significant presence of students or early-career professionals in the study. Meanwhile, 22.9% earn between 10K and 50K, 21.8% fall into the 50K–80K range, and 23.6% report earnings above 80K per month. The balanced distribution across income brackets highlights that brand loyalty is not limited to a particular economic class but is influenced by multiple factors, such as affordability, perceived value, and marketing strategies. Brands targeting higher-income segments may focus on exclusivity and premium value, while those addressing lower-income segments might emphasize affordability and frequent discounts.

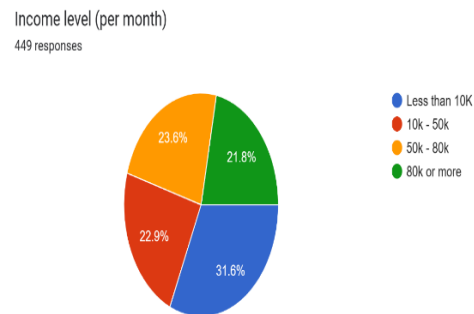


Fig.3 A Pie Chart Showing Respondents' Monthly Income Distribution

C. Occupation of Respondents

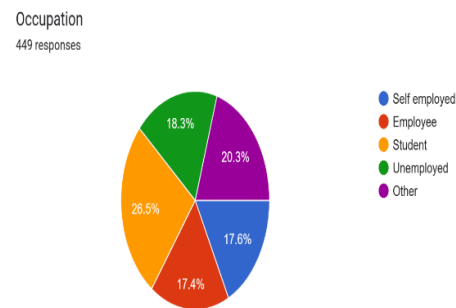


Fig.4 A Pie Chart Illustrating the Occupational Categories of Respondents

The occupational profile shows that the largest category is employees (26.5%), followed by students (20.3%), self-employed individuals (18.3%), and unemployed respondents (17.4%), with other occupations constituting 17.6% of the sample. This data suggests that employees and students form a key consumer base for brand loyalty research, likely due to their predictable purchasing behaviours and digital engagement. Students, in particular, tend to show strong brand preferences shaped by trends, peer influence, and social media, while employees may focus more on quality, reliability, and long-term brand associations.

D. Factors Influencing Online Shopping Behaviour

The bar chart illustrates that the most influential factor driving online shopping behaviour is “Discounts and Offers” (30.5%), followed closely by “Easy Availability” (29.2%) and “Word of Mouth” (27.2%).

F. Frequency of Online Shopping

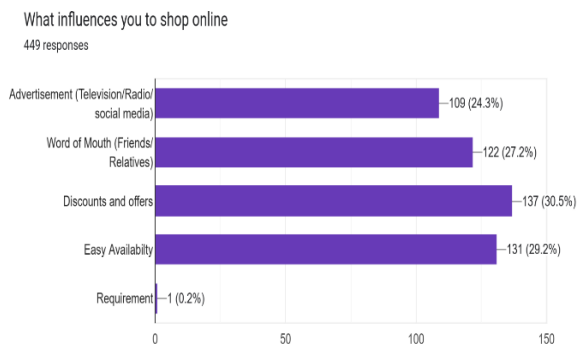


Fig.5 A Bar Chart Depicting Factors that Influence Online Shopping Decisions

Advertisements (24.3%) also play a notable role, while “Requirement” as a factor is almost negligible. These findings align with consumer behaviour theories, suggesting that price incentives and convenience are primary motivators in e-commerce transactions. Brands aiming for higher customer acquisition should prioritize competitive pricing, promotional campaigns, and seamless online experiences, while leveraging word-of-mouth marketing through influencers and satisfied customers.

E. Gender Distribution of Respondents

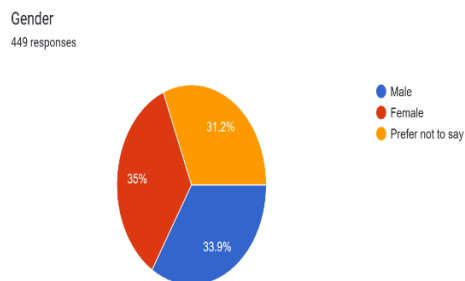


Fig.6 A Pie Chart Representing the Gender Distribution of Respondents

The gender composition of respondents is fairly balanced, with males representing 33.9%, females 35%, and 31.2% choosing not to disclose their gender. This distribution suggests a near-equal representation of male and female consumers in brand loyalty research. Gender-based brand loyalty studies often highlight differences in purchasing behaviours, with females typically exhibiting higher brand attachment due to emotional connections, while males may focus more on functionality and brand prestige.

The large proportion of respondents who preferred not to disclose their gender indicates a growing sensitivity toward privacy, which brands should acknowledge when designing targeted marketing campaigns.

How frequently do you shop from e-commerce sites
449 responses

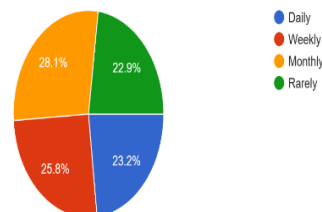


Fig.7 A Pie Chart Showing How Often Respondents Shop from E-Commerce Sites

Shopping frequency data show a moderate spread, with 28.1% of respondents shopping rarely, 25.8% shopping monthly, 23.2% weekly, and 22.9% daily. This pattern suggests that a significant portion of the consumer base shops occasionally, likely influenced by seasonal sales, discounts, or specific needs. The presence of frequent shoppers (daily and weekly) emphasizes the importance of customer retention strategies, such as personalized promotions, loyalty programs, and subscription models, to ensure repeated engagement.

G. Preferred E-commerce Platforms

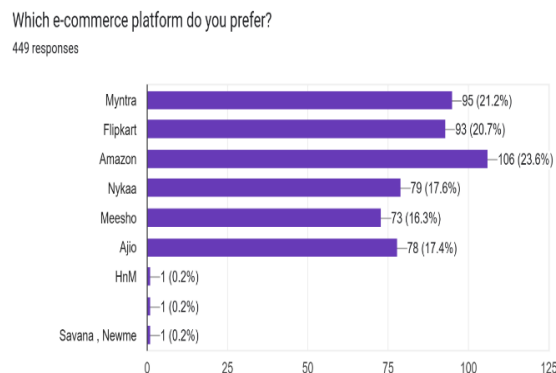


Fig.8 A Bar Chart Displaying Respondents' Preferred Online Shopping Platforms

Among various e-commerce platforms, Amazon leads, with 23.6% of respondents preferring it, followed by Myntra (21.2%), Flipkart (20.7%), Nykaa (17.6%), and Ajio (17.4%). Meesho (16.3%) also has a notable presence, while niche brands like H&M and Savana show negligible preference. The dominance of Amazon reflects its strong brand positioning, diverse product offerings, and trustworthiness. However, Myntra, Flipkart, and Nykaa cater to specific market segments, such as fashion and beauty, suggesting that niche brands can achieve loyalty by offering specialized and personalized experiences.

H. Standardized Factor Loadings

The factor loadings demonstrate the impact of each construct on customer acquisition. All loadings exceed 0.69, indicating strong reliability and significance in explaining the observed variables. The table below summarizes the factor loadings:

TABLE II STANDARDISED FACTOR LOADINGS

Construct	Observed Variable	Factor Loading	Interpretation
Trust & Relationship (TR)	TR1 (Customer perception of trust)	0.78	Strong influence
	TR2 (Reliability of service)	0.82	Strong influence
	TR3 (Brand reputation impact)	0.76	Strong influence
Transparency (TP)	TP1 (Clarity of policies)	0.81	Strong influence
	TP2 (Price transparency)	0.85	Very strong influence
	TP3 (Honesty in communication)	0.79	Strong influence
Customer Engagement (CE)	CE1 (Interactivity with brand)	0.72	Moderate influence
	CE2 (Social media participation)	0.74	Moderate influence
	CE3 (Loyalty program effectiveness)	0.69	Moderate influence
AI-Driven Technology (AI)	AI1 (Personalized recommendations)	0.83	Strong influence
	AI2 (Chatbot efficiency)	0.79	Strong influence
	AI3 (AI-driven customer service)	0.81	Strong influence
Customer Acquisition (CA)	CA1 (Ease of first purchase)	0.77	Strong influence
	CA2 (Retention after first buy)	0.82	Strong influence
	CA3 (Customer referrals)	0.75	Strong influence

I. Key Insights from Factor Loadings

1. *Trust and Relationship:* Trust and relationship significantly impact customer acquisition, with reliability of service (0.82) and brand reputation (0.76) playing crucial roles. This indicates that customers are more likely to continue engaging with an e-commerce platform if they perceive it as reliable and reputable.

These results highlight the importance of consistent service quality, clear policies, and strong brand positioning. Companies should invest in customer service training, robust return policies, and credibility-enhancing measures, such as certifications and partnerships, to strengthen trust.

2. *Transparency:* Transparency is a major driver of customer acquisition, with price transparency (0.85) being the most critical factor. Clarity in policies (0.81) and

honesty in communication (0.79) further reinforce customer trust, making customers more likely to complete purchases and remain loyal. Firms should prioritize transparent communication about pricing structures, service terms, and data-handling practices. Additionally, ensuring real-time updates on order statuses and implementing fair refund policies can further boost transparency-driven trust.

3. *Customer Engagement:* Customer engagement shows a moderate influence on customer acquisition, with social media participation (0.74) and interactivity with brands (0.72) playing key roles. Loyalty programs (0.69) have the lowest impact, suggesting that while engagement helps build brand recall, it may not directly translate into acquisitions.

Improving engagement requires innovative social media campaigns, interactive content, and gamified loyalty programs to enhance participation and conversion rates. Integrating AI-driven chatbots for personalized engagement can also strengthen this factor.

4. *AI-Driven Technology:* AI-based personalization (0.83) and chatbot efficiency (0.79) play a crucial role in improving customer acquisition. AI-driven solutions enhance the user experience, making interactions smoother and more personalized, which positively affects customer retention and referrals.

Retailers should leverage AI analytics to provide predictive recommendations, improve chatbot responsiveness, and automate responses in ways that mimic human interaction. Ensuring ethical AI use and transparent algorithms will also enhance customer trust.

5. *Customer Acquisition:* The ease of the first purchase (0.77) and retention after the first buy (0.82) are strong indicators of successful customer acquisition. Referral programs (0.75) also have a high impact, highlighting the importance of word-of-mouth marketing in e-commerce.

6. *Final Insights:* The findings suggest that AI-driven technology and transparency are the most influential factors in driving customer acquisition. Trust and relationships also play a significant role, while customer engagement has a moderate impact.

To improve customer acquisition strategies, e-commerce platforms should focus on the following:

1. Enhancing AI-based personalization and chatbot services to improve customer interactions.
2. Maintaining transparent pricing policies and clear communication regarding policies and feedback usage.
3. Strengthening trust and brand reputation by ensuring reliable service and product quality.
4. Optimizing engagement strategies, such as social media interactions, to foster long-term brand loyalty.

Additionally, future research can explore mediation or moderation effects by incorporating additional constructs, such as customer satisfaction or perceived risk. Expanding the dataset across different geographic regions and demographic groups could also provide a more comprehensive understanding of e-commerce consumer

behaviour. By refining these elements, e-commerce platforms can adopt a more customer-centric approach, leading to improved acquisition rates and long-term customer retention.

V. LIMITATIONS

This study has several limitations that may affect its generalizability. The cross-sectional nature of the research captures consumer perceptions at a single point in time, limiting insights into changes over time. Additionally, reliance on self-reported data introduces potential biases, and the study focuses on correlation rather than causation, limiting its ability to establish definitive cause-and-effect relationships. Geographically, the study is confined to Bangalore, and the sample is biased toward younger consumers, overlooking older age groups. Furthermore, the research does not differentiate between e-commerce sectors, and external factors, such as market conditions and rapid AI advancements, could influence consumer behaviour. These limitations highlight the need for future research that includes broader demographics, multiple regions, and sector-specific analyses.

VI. CONCLUSION

This study highlights the key factors influencing customer acquisition in e-commerce, with transparency and AI-driven technology emerging as the most impactful. Trust and relationships also play a significant role, while customer engagement has a moderate influence. Price transparency, personalized recommendations, and brand reliability are crucial for attracting and retaining customers. Ensuring clear communication, fair pricing structures, and AI-driven personalized experiences can significantly enhance customer trust and satisfaction. While engagement strategies such as social media marketing and loyalty programs contribute to long-term relationships, they alone are not sufficient for customer acquisition. Businesses need a holistic approach that integrates trust-building measures, transparency, and technological advancements to enhance customer retention and growth.

VII. RECOMMENDATIONS

To improve customer acquisition, e-commerce platforms should focus on strengthening transparency by ensuring clear pricing, honest communication, and real-time order updates. Leveraging AI-driven technology, such as personalized recommendations and chatbot-based customer support, can enhance user engagement and satisfaction. Establishing trust through reliable service, brand reputation, and responsive feedback mechanisms will further strengthen customer relationships. Additionally, optimizing engagement strategies through social media marketing, interactive content, and well-structured loyalty programs can improve brand recall and foster long-term customer commitment. Lastly, businesses should consider external factors, such as economic conditions, competition, and regulatory policies,

while formulating strategies to ensure adaptability and sustained growth in the competitive e-commerce landscape. By integrating these approaches, e-commerce platforms can enhance their customer acquisition strategies and build a loyal consumer base.

ACKNOWLEDGEMENT

We take this opportunity to thank the leadership group and faculty colleagues of the Xavier Institute of Management and Entrepreneurship (XIME), Bangalore, for their constant motivation and encouragement throughout the entire process of this research study.

Declaration of Conflicting Interests

The author declares no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

Funding

The author received no financial support for the research, authorship, and/or publication of this article.

Use of Artificial Intelligence (AI)-Assisted Technology for Manuscript Preparation

The author confirms that no AI-assisted technologies were used in the preparation or writing of the manuscript, and no images were altered using AI.

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