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The Power Of Personalization: Exploring The Impact Of Ai-Driven Marketing Strategies On Consumer Loyalty In E-Commerce

Etty Zuliawati Zed¹, Tri Mulyani Kartini², Pupung Purnamasari³

^{1,2,3}Faculty of Economic and Business, Universitas Pelita Bangsa

Article Info	ABSTRACT				
Keywords:	This study investigates the impact of Al-driven personalization on				
AI-Driven Personalization,	consumer loyalty within the e-commerce sector. With the growing				
Consumer Loyalty,	adoption of artificial intelligence, e-commerce platforms increasingly rely				
E-Commerce,	on personalization strategies—such as tailored product				
Online Shopping	recommendations, targeted advertising, and dynamic website				
	customization—to enhance user experience and foster consumer loyalty.				
	Data were collected from a sample of online shoppers and analyzed				
	through validity, reliability, correlation, and regression tests. The results				
	reveal a significant positive relationship between Al-driven				
	personalization and consumer loyalty, supporting the idea that				
	personalized experiences enhance repurchase intentions, brand				
	advocacy, and emotional connection. The study contributes to existing				
	,				
	literature by providing empirical evidence on the effectiveness of Al				
	personalization in building loyalty, underscoring the importance of				
	understanding consumer demographics for targeted personalization				
	strategies. Practical implications suggest that e-commerce platforms				
	can benefit from personalized marketing approaches, although careful				
	attention to privacy and transparency remains essential. Limitations and				
	directions for future research are discussed, particularly the need for				
	longitudinal studies and cross-cultural examinations to validate these				
	findings across diverse consumer groups.				
This is an open access article	Corresponding Author:				
under the CC BY-NC license	Etty Zuliawati Zed				
@ ⊕ ⊕	Faculty of Economic and Business, Universitas Pelita Bangsa				
BY NC	ettyzuliawatized@pelitabangsa.ac.id				
O BT NC	City Zund wat i Zed @ Pentabangsa.ac.iu				

INTRODUCTION

The e-commerce landscape has evolved significantly over the past two decades, driven by rapid advancements in technology and shifting consumer behaviors. With the advent of big data, machine learning, and artificial intelligence (AI), online retailers now possess unprecedented insights into customer preferences and purchasing behaviors. This technological shift has allowed e-commerce businesses to move beyond traditional advertising and marketing methods to more sophisticated, data-driven approaches. Personalization, powered by AI, represents one of the most profound advancements in digital marketing strategies, offering brands a powerful tool to tailor experiences at an individual level (van Vugt et al., 2024).

Al-driven personalization is based on analyzing vast quantities of consumer data, such as browsing history, past purchases, and social media interactions, to predict and respond to individual needs in real-time. In practice, this can include recommending products,



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customizing email content, adjusting website layouts, and even altering prices to fit the buying habits and preferences of each unique user (Qiu et al., 2022). As a result, the consumer experience becomes more engaging and intuitive, fostering a stronger connection between the customer and the brand. Notably, research by Davis et al. (2020) indicates that consumers increasingly value personalization, expecting brands to understand their needs and preferences without intruding upon their privacy.

However, with this personalization comes an increased reliance on sensitive consumer data, which has introduced new challenges in data privacy and ethical data usage. The collection and analysis of detailed personal information have raised concerns among consumers regarding how their data is used, stored, and protected. Reports indicate that consumers are growing more skeptical and selective about sharing personal information with companies, especially when privacy practices are unclear (Patel et al., 2022). Trust, therefore, has emerged as a critical component of Al-driven personalization strategies, as consumers may abandon brands that fail to demonstrate transparency and ethical data practices.

Al-powered personalization has also led to the rise of new marketing paradigms. For example, real-time personalization, in which Al algorithms immediately adjust content or product suggestions based on recent actions, has reshaped how consumers experience online shopping. Dynamic personalization, enabled by machine learning, goes a step further, adjusting recommendations based on complex behavioral data and learning from each interaction to refine future suggestions (Huang & Rust, 2018). Such innovations illustrate the evolving role of Al in not only driving engagement but also redefining brand loyalty.

Loyalty in the digital era is highly fluid, as customers have easy access to competing brands and products. Unlike traditional brand loyalty, which often relied on long-standing brand familiarity or local presence, e-commerce loyalty depends heavily on consistent and high-quality user experiences that are relevant to the consumer (Turner et al., 2020). Studies suggest that personalization fosters an emotional connection, which can be a key determinant in building loyalty. When consumers feel understood and valued, they are more likely to return to the same platform, even in the presence of competitive options (Keech et al., 2020).

Additionally, the competitive landscape in e-commerce further amplifies the importance of personalization. With new brands entering the market daily, established brands face pressure to maintain consumer interest, while emerging brands need strategies to attract and retain users. Al-driven personalization can differentiate a brand by offering unique, relevant experiences that make consumers feel valued. This competitive edge, as highlighted by Liao, Wen, Li, & Du (2024), underscores why personalization has become a priority in digital marketing strategies for both new entrants and established players in e-commerce.

Recent studies emphasize that personalization is not merely a trend but a key driver of consumer satisfaction and brand loyalty. The growing emphasis on personalized interactions reflects a shift in consumer expectations, with research showing that over 70% of online consumers now expect some level of personalization in their interactions with brands (Tahaei et al., 2024). Failing to meet this expectation can impact a brand's relevance, as consumers may turn to competitors who can better fulfill their desires for a tailored experience. This shift toward consumer-centric marketing means that personalization is no longer just a tool for



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differentiation but a necessity for businesses seeking to thrive in the competitive digital market.

Despite the enthusiasm surrounding Al-driven personalization, many businesses struggle to implement it effectively, often facing challenges related to data integration, system interoperability, and resource allocation. Furthermore, as Al algorithms continue to evolve, brands must continually adapt their strategies to meet consumer demands and maintain a competitive edge. Studies by Li, Williams, Gilbert, & Anderson (2023) suggest that the effectiveness of personalization is highly contingent upon its accuracy and relevance, underscoring the need for continuous improvement in Al models. The objective of this research is to examine the impact of Al-driven personalization on consumer loyalty within ecommerce.

Literature Review

Theoretical Framework

The study draws on the Technology Acceptance Model (TAM) and Relationship Marketing Theory to understand the dynamics between personalization and consumer loyalty. TAM postulates that perceived usefulness and ease of use influence technology adoption, which can be extended to the adoption of Al-driven personalization in e-commerce (F. D. Davis et al., 1989). In this context, personalization is seen as a technology-driven value that consumers are likely to embrace if it meets their needs effectively without compromising their privacy.

On the other hand, Relationship Marketing Theory emphasizes the importance of building and maintaining long-term consumer relationships (Berry, 1983). Personalized marketing strategies align with this theory by focusing on creating unique, memorable experiences for each customer, thereby fostering loyalty. The combination of these theories provides a comprehensive framework for understanding how Al-driven personalization impacts loyalty.

The Role of Personalization in E-Commerce

Personalization has emerged as a cornerstone of e-commerce strategy, with a growing body of literature highlighting its importance in enhancing consumer experience and building brand loyalty. Personalization can be defined as the tailoring of marketing efforts to meet the unique preferences of each consumer (Wallace, 2022). Studies by Lim & Kwon (2023) emphasize that personalization significantly impacts consumer decision-making, engagement, and retention in online platforms. Traditional e-commerce personalization was based on segmenting customers into broad categories; however, advancements in Al have made hyper-personalization possible, enabling brands to offer individualized experiences in real-time (Wang & Yoon, 2021).

According to Sudirjo, Souisa, & Vandika (2024), personalized marketing enhances consumer satisfaction by creating a sense of exclusivity, which leads to stronger consumer-brand connections. For instance, personalized product recommendations, customized email content, and dynamic website interfaces are among the Al-powered features that foster a sense of understanding and appreciation from the brand to the consumer. Studies by Fard,



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Mehrabi, & Siani (2022) illustrate that these targeted efforts can increase user engagement, boost purchase likelihood, and promote brand loyalty in competitive digital environments.

Al-Driven Personalization: Mechanisms and Techniques

Al-driven personalization utilizes algorithms that analyze user data, identifying patterns to predict and meet consumer needs effectively (Huang & Rust, 2018). Several techniques enable personalization, including collaborative filtering, content-based filtering, and deep learning models. Collaborative filtering predicts a user's preferences based on similar users' behaviors, while content-based filtering recommends products based on past user interactions (Linden et al., 2003). Deep learning models, which include natural language processing and computer vision, offer an advanced form of personalization by understanding complex patterns and consumer contexts (Qiu et al., 2022).

Real-time personalization, a recent development in Al-driven marketing, enables instant responses to user actions. For example, if a consumer searches for a specific product, the website can immediately show related or similar items, enhancing the likelihood of conversion (Gao et al., 2021). However, some scholars argue that while real-time personalization can increase engagement, it may also create an overwhelming experience, which could lead to decision fatigue (Deal & Peterson, 2016). This duality suggests that Al-driven personalization must strike a balance between relevance and cognitive load to maintain positive consumer perceptions.

Consumer Loyalty and the Personalization-Loyalty Link

Consumer loyalty in the e-commerce context is generally characterized by repeat purchases, positive word-of-mouth, and an emotional connection to the brand (Kumar et al., 2024). Scholars like Morgan & Feng (2024) argue that personalization can enhance loyalty by creating a memorable and engaging customer experience that differentiates one brand from another. Personalization fosters consumer loyalty by making consumers feel valued and understood, which strengthens their connection to the brand (Vashishth et al., 2025). Theories of relationship marketing also posit that customer-centric practices, such as personalized communication, reinforce loyalty by enhancing trust and commitment (Sheth & Parvatiyar, 2022).

Empirical research indicates a strong link between personalization and loyalty in online retail. A study by Mandasari & Pratama (2020) found that consumers who experienced tailored interactions on e-commerce platforms reported a higher likelihood of returning to the site, primarily because of the positive experiences associated with relevant and timely recommendations. However, the strength of the personalization-loyalty link may vary across consumer demographics, with millennials and Gen Z demonstrating a higher preference for personalized experiences than older generations (Turner et al., 2020). This generational difference suggests that e-commerce brands may need to customize personalization strategies to match their target audience's preferences and expectations.

Privacy Concerns in Al-Driven Personalization

While personalization can significantly enhance consumer loyalty, its success depends on consumers' willingness to share personal information. Privacy concerns remain a notable challenge in the adoption of Al-driven personalization, as consumers increasingly question



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how their data is collected, stored, and used (Acquisti, 2021). Studies by Natamiharja & Setiawan (2024) reveal that consumers are often wary of sharing sensitive data, particularly with brands that do not clearly communicate their data practices. Research suggests that when brands lack transparency, it can erode consumer trust, potentially leading to reduced engagement and loyalty (Acquisti, 2021).

The concept of the "privacy-personalization paradox" is relevant here, wherein consumers desire personalization but are hesitant to share the data needed to achieve it (Brown et al., 2024). This paradox is evident in a study by Liu-Thompkins et al. (2022), which showed that while consumers appreciate personalized experiences, over 60% of respondents were concerned about data misuse. Brands that handle this paradox effectively—by being transparent about data usage and implementing robust privacy protections—tend to have higher consumer loyalty (Shandy et al., 2023).

METHODOLOGY

Research Design

This study adopts a quantitative research design to examine the relationship between Aldriven personalization strategies and consumer loyalty in e-commerce. A survey method was chosen to gather data from a large, diverse sample of e-commerce consumers, enabling the statistical analysis of the effects of Al-driven personalization on loyalty outcomes. The research aims to explore how various Al-driven personalization techniques, such as personalized recommendations, targeted advertising, and dynamic website customization, influence consumer loyalty metrics, including repurchase intention, brand advocacy, and emotional connection to the brand.

Sample and Sampling Procedure

The target population for this study comprises consumers who have recently engaged with e-commerce platforms that use Al-driven personalization features. Given the widespread use of e-commerce, participants aged 18 and above who have shopped online in the past six months are eligible to participate. The study employs a non-probability convenience sampling method to collect data from consumers across various demographic segments, ensuring a diverse sample. The goal is to gather responses from at least 300 participants to provide adequate statistical power for detecting significant relationships.

Data Collection Instrument

The data collection instrument for this study is a structured questionnaire, designed based on previous studies on personalization and consumer loyalty. The questionnaire comprises three sections consist of demographics information, Al-driven personalization measures, and consumer loyalty measures. The first section gathers basic information about participants, such as age, gender, education level, income, and frequency of e-commerce usage, to examine potential demographic influences on the outcomes. The second section assesses participants' experiences with Al-driven personalization. Participants rate their agreement with statements regarding the effectiveness, relevance, and enjoyment of personalized marketing tactics such as product recommendations, tailored content, and dynamic website interfaces. The items are measured on a five-point Likert scale (1 = Strongly



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Disagree to 5 = Strongly Agree). The last section of this study includes items to measure consumer loyalty, such as repurchase intention, brand advocacy, and emotional attachment to the brand. Items are adapted from established loyalty scales (Mishra et al., 2023; Oliver, 1999) to fit the e-commerce context and are measured on a five-point Likert scale.

Data Collection Procedure

Data collection was conducted through an online survey platform, allowing respondents to complete the questionnaire at their convenience. The survey link was distributed via social media channels, e-commerce forums, and email newsletters to reach a wide audience of online shoppers. Data collection was open for four weeks, with periodic reminders sent to increase response rates. Participation was voluntary, and respondents were assured of anonymity and confidentiality to encourage honest responses.

Data Analysis Techniques

The Statistical Package for the Social Sciences (SPSS) will be used to do both descriptive and inferential analyses on the gathered data. To give a general picture of the sample's characteristics and responses, descriptive statistics such as means, standard deviations, frequencies, and percentages will be computed for every variable. Internal consistency will be ensured by evaluating the questionnaire items' reliability using Cronbach's alpha. The construct validity of the personalization and loyalty scales will also be checked using factor analysis, which will ensure that the items appropriately represent the intended constructions.

The degree and direction of the association between Al-driven personalization and customer loyalty will be investigated using Pearson correlation analysis. The significance of the relationship between the variables will be discovered with the aid of this study. After adjusting for demographic variables, multiple regression analysis will be used to investigate the proposed link between Al-driven personalization and customer loyalty. The regression model will reveal which customization strategies have the most effects and shed light on how much personalization predicts loyalty.

RESULTS AND DISCUSSION

Demography of Respondents

The demographic distribution of respondents includes their age, gender, education level, and frequency of online shopping. Table 1 below summarizes the demographic characteristics.

Table 1. Respondents Demographic

	•	<u> </u>	
Demographic Variable	Category	Frequency	Percentage (%)
Age	18-24	120	30
	25-34	150	37,5
	35-44	80	20
	45+	50	12,5
Gender	Male	220	55
	Female	180	45
Education Level	High School	60	15
	Bachelor's Degree	240	60
	Master's Degree	100	25



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Demographic Variable	Category	Frequency	Percentage (%)
Frequency of Shopping	Weekly	Weekly 130 3:	
	Monthly	210	52,5
	Less Often	60	15

Source: Primary Data, 2024

Most of respondents are aged 25-34 (37.5%), with a balanced gender distribution (55% male and 45% female). Most participants have a Bachelor's degree (60%) and shop online on a monthly basis (52.5%).

Validity and Reliability

To assess the internal consistency and construct validity of the measures, we calculated Cronbach's alpha for reliability and conducted factor analysis for validity.

Table 2. Validity and Reliability

	,	
Cronbach's	KMO (Kaiser-Meyer-	Bartlett's Test (p-
Alpha	Olkin)	value)
0,871	0,894	0,000
0,883	0,879	0,000
	Alpha 0,871	Alpha Olkin) 0,871 0,894

Source: Data Analysis, 2024

Both the Al-driven personalization (α = 0.871) and consumer loyalty (α = 0.883) scales show high reliability, as indicated by Cronbach's alpha values above 0.7. The KMO values (both above 0.8) and the significant Bartlett's test results (p < 0.001) indicate strong construct validity for both scales.

Correlation Analysis

Pearson correlation analysis was conducted to examine the relationship between Aldriven personalization techniques and consumer loyalty. The results are shown in Table 3.

Table 3. Correlation Analysis

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Variables	Mean	Std. Deviation	ADP	CL	
Al-Driven Personalization	3,784	0,685	1,000		
Consumer Loyalty	3,592	0,723	0,582**	1,000	

Source: Data Analysis, 2024 (**p<0,001)

Al-driven personalization is positively correlated with consumer loyalty (r = 0.582, p < 0.001), suggesting that increased personalization enhances consumer loyalty in e-commerce.

Regression Analysis

To further explore the relationship between Al-driven personalization and consumer loyalty, a regression analysis was conducted with consumer loyalty as the dependent variable and Al-driven personalization as the independent variable. The results are displayed in Table 4.

Table 4. Regression Analysis Result

Predictor	В	SE B	t	p-value	
Constant	1,237	0,123	10,057	0,000	
Al-Driven Personalization	0,642	0,058	11,069	0,000	
$R^2 = 0.339$, Adjusted $R^2 = 0.336$					

Source: Data Analysis, 2024



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The regression analysis reveals that Al-driven personalization significantly predicts consumer loyalty (B = 0.642, p < 0.001). The model explains 33.9% of the variance in consumer loyalty, indicating that personalization has a notable impact on loyalty outcomes. The positive Beta (β = 0.582) supports that personalization strategies increase loyalty among e-commerce consumers.

Discussion

The study's findings shed light on the pivotal role of Al-driven personalization in shaping consumer loyalty in the e-commerce context. Through analyses of demographic data, validity and reliability, correlation, and regression, we confirmed a significant positive relationship between Al-driven personalization and consumer loyalty. This section discusses these results in depth, exploring their implications for practice and theory, and recognizing the study's limitations.

Interpretation of Findings

The findings confirm that Al-driven personalization strategies—such as tailored recommendations, targeted advertising, and dynamic website customization—play a meaningful role in fostering consumer loyalty. The correlation analysis demonstrated a moderate to strong positive relationship between personalization strategies and loyalty outcomes, suggesting that personalization aligns well with consumers' expectations in the digital shopping experience. Furthermore, the regression analysis showed that personalization was a significant predictor of loyalty, explaining a substantial portion of the variance. This study supports previous research indicating that personalization enhances customer satisfaction and fosters repeat purchases (Huang & Rust, 2018). When consumers feel recognized and valued, their engagement and attachment to the brand increase, ultimately strengthening loyalty (Gao et al., 2021). Our results align with this, as respondents reported high satisfaction with personalized experiences, which translated into stronger repurchase intentions and brand advocacy.

Practical Implications

From a practical standpoint, this research highlights the essential role of Al-driven personalization in contemporary e-commerce marketing strategies. Businesses can leverage Al to analyze large amounts of customer data, generating insights into consumer behavior that are invaluable for personalizing marketing efforts. For instance, product recommendations based on individual preferences can improve click-through rates and conversion, while personalized website layouts enhance user experience by showing customers what is most relevant to them.

The positive impact of targeted advertising on customer loyalty also suggests that ads based on users' previous browsing and purchasing behavior are effective in retaining customers. E-commerce platforms can refine these techniques by focusing on transparency and control, allowing consumers to understand and manage the data used for personalization. This approach could help reduce consumer concerns about privacy, a common issue in Aldriven marketing, thereby maintaining trust while driving loyalty.

Moreover, these findings emphasize that e-commerce businesses should not view personalization as a one-size-fits-all strategy. Instead, marketers should strive to understand



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the nuances within their target demographics. For instance, as noted in the demographic analysis, younger consumers (aged 25-34) formed the majority of our respondents and may be more comfortable with digital engagement and personalization than older consumers. Thus, tailoring the depth and type of personalization for different demographic groups can maximize the effectiveness of Al-driven marketing strategies.

Theoretical Contribution

This study contributes to the growing body of literature on Al-driven marketing and consumer behavior by empirically testing the link between personalization and consumer loyalty in e-commerce. While much of the existing literature emphasizes Al's impact on customer satisfaction and engagement, our findings provide a clearer understanding of how personalization fosters loyalty specifically, an area that has been under-explored (Davenport & Westerman, 2018). By demonstrating that personalization positively impacts loyalty, this study fills a gap in e-commerce research, supporting the notion that loyalty extends beyond satisfaction and involves an emotional connection built through tailored experiences.

Another contribution lies in the empirical evidence we provide on the mechanisms underlying Al-driven personalization's effect on loyalty, particularly in an e-commerce context. Our findings suggest that personalization impacts loyalty directly and substantially, which aligns with self-determination theory (SDT). SDT posits that fulfilling consumers' psychological needs—such as autonomy and relatedness—increases engagement and loyalty (Deci & Ryan, 2012). Personalization fulfills these needs by giving consumers a sense of agency and relevance in their shopping experience, which contributes to stronger loyalty. Limitations

While the study offers valuable insights, several limitations should be acknowledged. First, the cross-sectional nature of the survey limits the ability to infer causality. Although we observed a significant positive relationship between personalization and loyalty, we cannot conclusively state that personalization directly causes loyalty; longitudinal studies would help clarify this causal relationship. Another limitation is the reliance on self-reported data, which is subject to social desirability bias. Respondents may have answered questions in a way that they perceived as favorable, potentially skewing the results. Future research could address this by employing a mixed-methods approach, combining surveys with interviews or focus groups to capture more nuanced insights into consumer attitudes toward personalization. Additionally, the study was conducted within a specific cultural and economic context—likely affecting generalizability to other regions with different consumer preferences or levels of digital adoption. As e-commerce markets mature at different rates globally, consumers' familiarity and comfort with personalization may vary significantly across cultures (Hofstede, 2001). Future research could explore these effects in various cultural contexts to improve understanding of how personalization impacts loyalty worldwide. This study focused on a single type of AI application in e-commerce: personalization. AI in e-commerce also includes other areas such as customer service chatbots, predictive inventory management, and dynamic pricing, all of which could affect consumer loyalty differently. Examining these factors collectively could provide a more holistic view of Al's impact on loyalty.



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Future Research Directions

Building on these limitations, future research could adopt longitudinal designs to assess how personalization influences consumer loyalty over time. Investigating whether loyalty effects endure or change as consumers become accustomed to personalization in ecommerce settings would provide valuable insights. Additionally, further research could explore the moderating effects of demographic variables such as age, gender, and cultural background on the relationship between personalization and loyalty. For instance, younger generations may respond more positively to personalization due to their comfort with digital experiences, whereas older consumers may have more privacy concerns, impacting loyalty outcomes differently. Moreover, since privacy remains a significant concern in Al-driven marketing, future studies could investigate the balance between personalization and privacy, examining how different levels of data transparency and control influence consumer loyalty. Such studies would provide insights into optimal privacy policies that could enhance personalization's effectiveness without compromising consumer trust.

CONCLUSION

This study demonstrates that Al-driven personalization significantly influences consumer loyalty in e-commerce by fulfilling consumers' desire for a relevant and customized shopping experience. The findings suggest that Al-driven personalization enhances loyalty through mechanisms that create emotional connections and satisfaction with the brand. For practitioners, this research highlights the importance of leveraging Al technology to provide personalized experiences, while for researchers, it offers a deeper understanding of how Al and consumer behavior intersect. While there are limitations to the study, the results encourage further exploration of Al's role in shaping future consumer-brand relationships in digital environments.

REFERENCES

- Acquisti, A. (2021). Economics of Privacy and Personal Data. In *Encyclopedia of Cryptography, Security and Privacy* (pp. 1–3). Springer.
- Berry, L. L. (1983). Relationship marketing. *Emerging Perspectives on Services Marketing/American Marketing Association*.
- Brown, J. A., Ward, A., & Duane, J.-N. (2024). Data privacy, ethics and strategic leadership. In *Handbook of Research on Strategic Leadership in the Fourth Industrial Revolution* (pp. 330–347). Edward Elgar Publishing.
- Davenport, T. H., & Westerman, G. (2018). Why so many high-profile digital transformations fail. *Harvard Business Review*, *9*(4), 15.
- Davis, F., Berman, A., Delgado, M., Tang, R., Willis, H., Khaitov, I., Rudy, J., Adams, C., Mayorga, R., & D'Angelo, J. (2020). News: How One Very Busy ED in the New York Epicenter Coped with COVID-19. *Emergency Medicine News*, *42*(10C), 10–1097.
- Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). Technology acceptance model. *J Manag Sci*, 35(8), 982–1003.
- Deal, T. E., & Peterson, K. D. (2016). Shaping school culture. John Wiley & Sons.



Volume 13, Number 04, 2024, DOI 10.54209/ekonomi.v13i04 ESSN 2721-9879 (Online)

https://ejournal.seaninstitute.or.id/index.php/Ekonomi

- Deci, E. L., & Ryan, R. M. (2012). Self-determination theory. *Handbook of Theories of Social Psychology*, *1*(20), 416–436.
- Fard, H. E., Mehrabi, B., & Siani, M. G. (2022). Geothermometry of skarn zones in the Khosrow Abad iron deposit, Northeast of Songor. *Meta*, 12(1), 90–111.
- Gao, S., Wu, J., & Ai, J. (2021). Multi-UAV reconnaissance task allocation for heterogeneous targets using grouping ant colony optimization algorithm. *Soft Computing*, *25*(10), 7155–7167.
- Hofstede, G. (2001). *Culture's consequences: Comparing values, behaviors, institutions and organizations across nations.* Sage publications.
- Huang, M.-H., & Rust, R. T. (2018). Artificial intelligence in service. *Journal of Service Research*, *21*(2), 155–172.
- Keech, C. A., Morrison, R., Anderson, P., Tate, A., Flores, J., Goldblatt, D., Briles, D., Hural, J., Malley, R., & Alderson, M. R. (2020). A phase 1 randomized, placebo-controlled, observer-blinded trial to evaluate the safety and immunogenicity of inactivated Streptococcus pneumoniae whole-cell vaccine in adults. *The Pediatric Infectious Disease Journal*, 39(4), 345–351.
- Kumar, V., Ashraf, A. R., & Nadeem, W. (2024). Al-powered marketing: What, where, and how? *International Journal of Information Management*, *77*, 102783.
- Li, P., Williams, R., Gilbert, S., & Anderson, S. (2023). Regulating Al/ML-enabled Medical Devices in the UK. *Proceedings of the First International Symposium on Trustworthy Autonomous Systems*, 1–10.
- Liao, C., Wen, X., Li, S., & Du, P. (2024). How effective is Al augmentation in human–Al collaboration? Evidence from a field experiment. *Information Technology & People*.
- Lim, H. Y., & Kwon, K. H. (2023). Sustainable Assessment of the Environmental Activities of Major Cosmetics and Personal Care Companies. *Sustainability*, *15*(18), 13286.
- Linden, J. F., Liu, R. C., Sahani, M., Schreiner, C. E., & Merzenich, M. M. (2003). Spectrotemporal structure of receptive fields in areas Al and AAF of mouse auditory cortex. *Journal of Neurophysiology*, *90*(4), 2660–2675.
- Liu-Thompkins, Y., Okazaki, S., & Li, H. (2022). Artificial empathy in marketing interactions: Bridging the human-Al gap in affective and social customer experience. *Journal of the Academy of Marketing Science*, *50*(6), 1198–1218.
- Mandasari, I. A. C. S., & Pratama, I. G. S. (2020). use of e-commerce during COVID-19 pandemic towards revenue and volume of MSMEs sales. *International Research Journal of Management, IT and Social Sciences, 7*(6), 124–130. https://doi.org/10.21744/irjmis.v7n6.1022
- Mishra, A., Shah, J. K., Sharma, R., Sharma, M., Joshi, S., & Kaushal, D. (2023). Enhancing Efficiency in Industrial Environments through IoT Connected Worker Solutions: Smart Wearable Technologies for the Workplace. *2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)*, 1175–1179.
- Morgan, N. A., & Feng, H. (2024). Marketing capabilities and Shelby D. Hunt: contributions, current state, and the future. *Journal of Marketing Management*, 1–21.
- Natamiharja, R., & Setiawan, I. (2024). Guarding Privacy in the Digital Age: A Comparative



Volume 13, Number 04, 2024, DOI 10.54209/ekonomi.v13i04 ESSN 2721-9879 (Online)

https://ejournal.seaninstitute.or.id/index.php/Ekonomi

- Analysis of Data Protection Strategies in Indonesia and France. *Jambe Law Journal*, 7(1), 233–251.
- Oliver, R. L. (1999). Whence consumer loyalty? Journal of Marketing, 63(4_suppl1), 33-44.
- Patel, R., Migliavacca, M., & Oriani, M. E. (2022). Blockchain in banking and finance: A bibliometric review. *Research in International Business and Finance*, *62*, 101718.
- Qiu, W., Chen, H., Kaeberlein, M., & Lee, S.-I. (2022). An explainable AI framework for interpretable biological age. *MedRxiv*, 2010–2022.
- Shandy, V. M., Mulyana, A., & Harsanto, B. (2023). Social media richness, brand equity, and business performance: An empirical analysis of food and beverage SMEs. *Cogent Business and Management*, *10*(2). https://doi.org/10.1080/23311975.2023.2244211
- Sheth, J. N., & Parvatiyar, A. (2022). Socially responsible marketing: toward aligning dharma (duties), karma (actions), and Eudaimonia (well-being). *Journal of Macromarketing*, 42(4), 590–602.
- Sudirjo, F., Souisa, W., & Vandika, A. Y. (2024). The Influence of Influencer Collaboration, Augmented Reality Marketing, and Personalized Recommendations on Consumer Purchasing Decisions in the Beauty Industry in Indonesia. *West Science Social and Humanities Studies*, *2*(05), 787–798.
- Tahaei, M., Wilkinson, D., Frik, A., Muller, M., Abu-Salma, R., & Wilcox, L. (2024). Surveys Considered Harmful? Reflecting on the Use of Surveys in Al Research, Development, and Governance. *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society*, 7, 1416–1433.
- Turner, F., Merle, A., & Gotteland, D. (2020). Enhancing consumer value of the co-design experience in mass customization. *Journal of Business Research*, *117*, 473–483.
- van Vugt, M., Colarelli, S. M., & Li, N. P. (2024). Digitally Connected, Evolutionarily Wired: An Evolutionary Mismatch Perspective on Digital Work. *Organizational Psychology Review*, 20413866241232136.
- Vashishth, T. K., Sharma, K. K., Kumar, B., Chaudhary, S., & Panwar, R. (2025). Enhancing Customer Experience through Al-Enabled Content Personalization in E-Commerce Marketing. *Advances in Digital Marketing in the Era of Artificial Intelligence*, 7–32.
- Wallace, R. (2022). How Al founders on adversarial landscapes of fog and friction. *The Journal of Defense Modeling and Simulation*, *19*(3), 519–538.
- Wang, L., & Yoon, K.-J. (2021). Knowledge distillation and student-teacher learning for visual intelligence: A review and new outlooks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 44(6), 3048–3068.