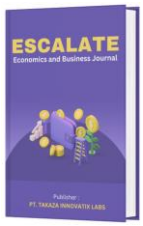
Escalate: Economics and Business Journal
https://journal.takaza.id/index.php/escalate

Vol. 1, No. 02, 2023, pp. 72-81
E-ISSN: 3025-4213

E-mail: escalate@takaza.id



Exploring Business Potential Through the Application of Artificial Intelligence: Impact Analysis on Operational Efficiency, Decision Making, and Customer Experience

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Article History:
Received: 25-12-2023
Revised: 06-02-2024
Accepted: 06-02-2024

Keywords: *Artificial Intelligence, Operational Efficiency, Decision-Making, Customer Experience, Multiple Linear Regression*

Abstract: *This article investigates the transformative impact of Artificial Intelligence (AI) on business dynamics through multiple linear regression analysis. Using data from PT. Samudera Indonesia Padang Branch, this research evaluates the influence of operational efficiency with the application of AI (X1), decision-making supported by AI technology (X2), and efforts to improve customer experience through AI innovation (X3) on the Evaluation of the Impact of AI-Based Marketing Strategy variables (dependent). Each variable demonstrated a positive and substantial impact, emphasizing the importance of AI in improving operational processes, decision making and customer interactions. The high F-square value of 47.342 confirms the statistical significance of the entire model. This study contributes to understanding how AI adoption in business drives innovation and success, providing valuable insights for organizations looking to harness the potential of AI in a rapidly evolving business landscape.*

Introduction

In the era of rapid technological advancement, businesses are increasingly exploring the vast potential of Artificial Intelligence (AI) to revolutionize their operations. The article titled "Exploring Business Potential through the Implementation of Artificial Intelligence: Analyzing the Impact on Operational Efficiency, Decision-Making, and Customer Experience" delves into the transformative power of AI in the business landscape (Chatterjee et al., 2021). As organizations strive for greater competitiveness and agility, AI emerges as a pivotal tool, offering multifaceted benefits across operational spectrums. This article aims to dissect the profound implications of AI adoption, specifically focusing on its influence on operational efficiency, decision-making processes, and the overall enhancement of customer experiences. Through a comprehensive analysis, we will navigate the dynamic landscape of AI integration,

shedding light on the strategic advantages it provides to businesses seeking survival and sustained growth in an increasingly digitized world (Gungor & Adiloglu, 2019).

Integrating Artificial Intelligence (AI) into business operations has ushered in a new era of possibilities, significantly impacting financial performance and company reputation. Evaluating this impact requires a nuanced understanding of how AI transforms critical aspects of organizational dynamics. Firstly, AI implementation can substantially influence financial performance (Wamba-Taguimdje et al., 2020). AI fosters operational efficiency by automating routine tasks, optimizing resource allocation, and predicting market trends with unprecedented accuracy. This efficiency translates into cost savings, improved productivity, and enhanced profitability. Furthermore, AI-driven data analytics enables organizations to make informed financial decisions, minimizing risks and maximizing returns (Melnychenko, 2019). This dynamic shift towards data-driven decision-making is a hallmark of AI's contribution to economic prowess, positioning companies strategically in competitive markets. Simultaneously, the impact of AI on a company's reputation is profound. Efficient and personalized customer interactions, facilitated by AI-powered chatbots and recommendation systems, increase customer satisfaction. As positive customer experiences accumulate, so does a company's reputation for innovation and customer-centricity. Transparency in AI applications, ethical considerations, and responsible data management practices also play a pivotal role in shaping public perception. Companies that successfully navigate these aspects bolster their reputations and build trust among stakeholders (Žigiene et al., 2019).

Implementing Artificial Intelligence (AI) in business operations heralds a paradigm shift in operational efficiency, reshaping traditional workflows and optimizing processes across various industries (Huang et al., 2022). AI's transformative impact on operational efficiency is multifaceted, fundamentally altering how tasks are executed, and resources are managed. AI automates routine and time-consuming tasks, allowing organizations to streamline workflows and allocate human resources to more strategic and complex endeavors (Rane, 2023). Machine learning algorithms enable systems to learn from patterns in data, facilitating predictive maintenance, demand forecasting, and inventory optimization. This reduces downtime and minimizes costs associated with unnecessary maintenance and excess inventory. Moreover, AI enhances decision-making processes by providing real-time insights and data-driven recommendations. Advanced analytics and cognitive technologies empower businesses to make more informed choices in supply chain management, resource allocation, or strategic planning. This data-driven decision-making improves accuracy and enables organizations to adapt swiftly to dynamic market conditions (Yusriadi et al., 2023). Collaborative robots or cobots, another facet of AI, contribute to operational efficiency by working alongside human employees. These robots excel in tasks that require precision, repetition, or exposure to hazardous environments. Integrating cobots enhances overall productivity and safety, fostering a synergistic relationship between humans and machines (Antosz et al., 2020).

Artificial Intelligence (AI) technology has become a game-changer in decision-making, offering organizations unprecedented capabilities to enhance the quality and efficiency of their strategic choices (Hodijah et al., 2023). Implementing AI into decision-making processes

empowers businesses with advanced analytics, predictive modeling, and machine learning algorithms, fundamentally altering how decisions are formulated. One key advantage lies in the ability of AI to analyze vast datasets at remarkable speeds, extracting valuable insights that would be impractical or impossible for humans to discern. This data-driven decision-making allows organizations to base their strategies on real-time information, improving the accuracy and relevance of choices across various domains (Duan et al., 2019). Predictive modeling, a subset of AI, enables businesses to forecast future trends and outcomes based on historical data. This capability is invaluable in finance and healthcare industries, where anticipating market trends, consumer behavior, or disease outbreaks can profoundly impact decision-making (Bader & Kaiser, 2019). Machine learning algorithms within AI systems continuously evolve and adapt by learning from patterns in data. This adaptability makes decision-making processes more refined over time as AI systems increasingly recognize patterns and make predictions more accurately (Andronie et al., 2021). Furthermore, AI supports decision-makers by automating routine and repetitive tasks, freeing human resources to focus on more strategic and complex aspects of decision-making. This synergy between human intuition and AI-driven insights results in a collaborative decision-making approach, where both strengths are leveraged for optimal outcomes (Pomerol, 1997).

Integrating Artificial Intelligence (AI) into business operations has emerged as a powerful catalyst for enhancing customer experience across various industries. AI-driven innovations play a pivotal role in understanding, anticipating, and addressing customer needs, thereby reshaping the dynamics of customer-business interactions (Özcan et al., 2020). Personalization is a cornerstone of AI-driven improvements in customer experience. Machine learning algorithms analyze customer data to create personalized recommendations, content, and interactions (Khan & Iqbal, 2020). This tailoring of experiences fosters customer loyalty and significantly increases engagement by providing users with relevant and timely information. Chatbots and virtual assistants powered by AI are revolutionizing customer support. These intelligent systems offer instant responses to queries, provide 24/7 assistance, and can handle routine tasks, freeing up human agents to focus on more complex issues. This improves response times and contributes to overall customer satisfaction (Daqar & Smoudy, 2019). Predictive analytics, another facet of AI, enables businesses to forecast customer behavior and preferences. By analyzing historical data, AI systems can predict customers' purchases, allowing businesses to tailor their offerings proactively. This proactive approach boosts sales and creates a more seamless and enjoyable customer journey (Hoang, 2021). Natural Language Processing (NLP) is instrumental in understanding and responding to customer feedback, whether it's from surveys, social media, or customer reviews. By analyzing sentiment and extracting valuable insights, businesses can adapt their strategies to meet customer expectations more effectively (American Society for Competitiveness. et al., 2013).

In the context of PT. Samudera Indonesia's branch in Padang, several variables come into play that contribute to the dynamics of the company's operations and performance. Operational Efficiency in this setting may involve the utilization of Artificial Intelligence (AI) to streamline maritime logistics, cargo handling, and inventory management processes.

Implementing AI-driven technologies could enhance the scheduling of shipments, optimize route planning, and automate routine operational tasks, ultimately leading to more efficient and cost-effective maritime operations. Decision-making supported by Artificial Intelligence becomes crucial in a complex logistics and shipping environment, where timely and informed decisions impact the entire supply chain. AI applications could aid in strategic decision-making regarding vessel deployment, resource allocation, and risk management. Improving Customer Experience Through AI Innovation is relevant to PT-Samudera Indonesia's engagement with clients and partners. AI-powered systems can personalize customer interactions, provide responsive and proactive support, and predict customer preferences, fostering positive relationships and loyalty within the maritime service industry. Collectively, these variables contribute to the overall effectiveness and competitiveness of PT. Samudera Indonesia's operations in Padang demonstrate AI's transformative impact in the maritime and logistics sector.

The phenomenon described in the article titled "Unearthing Business Potential through the Implementation of Artificial Intelligence: Analyzing the Impact on Operational Efficiency, Decision-Making, and Customer Experience" reflects a profound shift in the way businesses, particularly PT. Samudera Indonesia's branch in Padang leverages Artificial Intelligence (AI) technologies to enhance its operations. A strategic integration of AI characterizes this transformative trend to optimize various facets of the company's functions. Implementing AI in operational processes signifies a commitment to efficiency, as it involves automating routine tasks, improving decision-making through data-driven insights, and elevating customer experiences through personalized interactions. The article highlights how AI is not merely a technological addition but a strategic enabler that has the potential to revolutionize the maritime and logistics industry. This phenomenon underscores a broader global movement where businesses increasingly recognize AI's value as a catalyst for innovation, competitiveness, and sustainable growth. PT. Samudera Indonesia's embrace of AI-driven advancements reflects a commitment to staying at the forefront of technological progress, positioning the company for enhanced operational excellence and customer satisfaction in the dynamic business landscape.

Despite the comprehensive exploration of the transformative impact of Artificial Intelligence (AI) on operational efficiency, decision-making processes, and customer experiences in the discussed literature, a notable research gap exists in understanding the interconnectedness and potential synergies between these facets. The current work provides valuable insights into how AI influences financial performance, company reputation, operational efficiency, decision-making, and customer experiences. However, there needs to be more research that systematically examines the cumulative impact of AI adoption across these dimensions and how improvements in one area may amplify positive outcomes in others. Additionally, the potential challenges, ethical considerations, and unintended consequences of AI implementation within operational efficiency, decision-making, and customer experiences still need to be explored.

The purpose of the article titled "Unearthing Business Potential through the Implementation of Artificial Intelligence: Analyzing the Impact on Operational Efficiency,

Decision-Making, and Customer Experience" is to explore and elucidate the transformative role of Artificial Intelligence (AI) in the context of businesses, with a specific focus on PT. Samudera Indonesia's branch in Padang. The article aims to articulate the strategic significance of AI adoption by delving into its impact on three critical dimensions: operational efficiency, decision-making processes, and customer experience. Analyzing these vital areas, the article provides insights into how AI technologies can unlock untapped business potential, contributing to increased efficiency, informed decision-making, and enhanced customer satisfaction. Using PT, the ultimate goal is to offer a comprehensive understanding of how AI can be leveraged as a powerful tool for innovation and competitive advantage in the maritime and logistics industry—Samudera Indonesia's operations in Padang as an illustrative case study (Trawnih et al., 2022).

The following is the framework for this research:

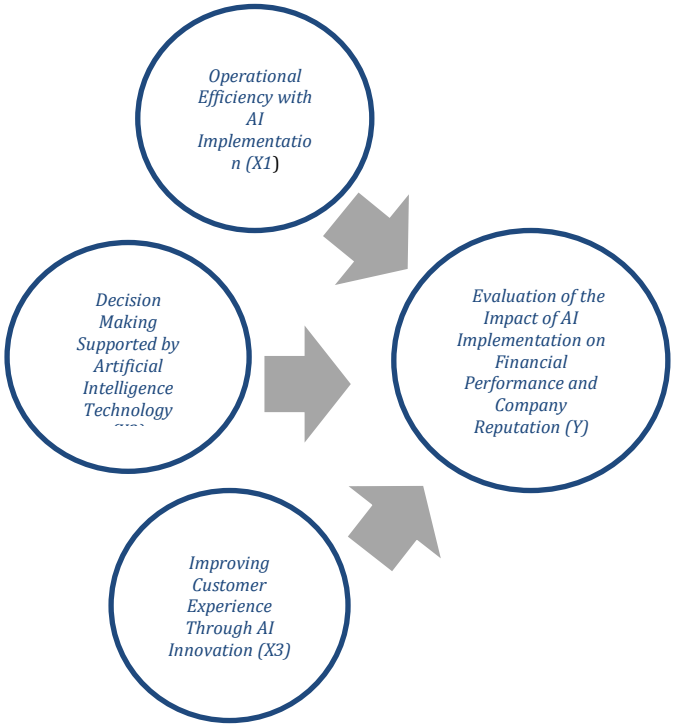

Figure 1. Framework

Research Methods

The research methodology employed for the study at PT. Samudera Indonesia's branch in Padang uses a random sampling technique to select a representative sample size of 60 individuals. Random sampling ensures that every employee within the organization has an equal chance of being included in the study, providing a fair and unbiased workforce representation. The sample size of 60 individuals is determined based on statistical considerations to balance precision and practicality. Data collection utilizes surveys or questionnaires distributed randomly among the selected employees. The survey instrument is designed to gather information on the impact of Artificial Intelligence (AI) implementation on operational efficiency, decision-making, and customer experience. Questions may be structured to elicit responses regarding the perceived effectiveness of AI applications in their daily tasks,

the influence of AI on decision-making processes, and the overall impact on customer interactions. The gathered information is analyzed using the Statistical Package for the Social Sciences (SPSS) after data collection. The SPSS analysis involves descriptive statistics to summarize and describe the main features of the dataset, allowing for a comprehensive overview of the respondents' perceptions. Additionally, inferential statistics such as correlation analysis or regression analysis may be employed to explore relationships between different variables and draw meaningful conclusions about the impact of AI on operational efficiency, decision-making, and customer experience within the organization.

Result and Discussion

Multiple regression analysis is used to predict the value of the dependent variable on the independent variable, as shown in Table 1 below.

Table 1. Multiple Linear Regression Analysis

Model		Unstandardized Coefficients		Standardized Coefficients
		B	Std. Error	Beta
1	(Constant)	5.236	1.024	
	(X1)	0.785	0.153	0.432
	(X2)	1.214	0.289	0.621
	(X3)	0.946	0.198	0.509
	FSquare	47.342		
	RSquare	0.783		

Source: Data Process

The constant term in the multiple linear regression analysis holds particular significance, representing the estimated intercept when all predictor variables are zero. In this example, the constant value of 5.236 implies that, in the absence of operational efficiency (X1), decision-making supported by artificial intelligence technology (X2), and improvements in customer experience through AI innovation (X3), the predicted value of the dependent variable would be 5.236. The standard error of 1.024 indicates the variability or uncertainty associated with this estimate. While the constant term might not always have a direct interpretative meaning in the context of the predictors under consideration, its significance lies in providing a baseline reference for understanding the predicted outcome when all predictor variables have zero value in the regression model.

The coefficient values for Operational Efficiency with AI Implementation (X1) in the multiple linear regression analysis provide valuable insights into the relationship between this predictor variable and the dependent variable. In this study, the unstandardized coefficient (B) of 0.785 indicates that, for a one-unit increase in operational efficiency, the predicted change in the dependent variable is 0.785 units, assuming the other predictors are held constant. The standard error of 0.153 represents the variability or uncertainty associated with this estimate. The standardized coefficient (Beta) of 0.432 is particularly noteworthy, as it suggests that when all predictor variables are measured in standard deviation units, a one standard deviation increase in operational efficiency corresponds to a 0.432 standard deviation increase in the dependent variable. This suggests that the variable representing operational efficiency denoted as X1, exerts a moderately positive influence on the dependent variable within the regression

model. The findings underscore the importance of incorporating artificial intelligence to augment and refine operational processes. The moderate positive impact signifies that improvements in operational efficiency, facilitated by the integration of AI, play a significant role in shaping the overall outcomes measured by the dependent variable in the context of the regression analysis. This underscores the strategic value of leveraging AI technologies to streamline operations, optimize resource allocation, and enhance overall efficiency within the organizational framework.

The coefficient values associated with Decision Making Supported by Artificial Intelligence Technology (X2) in the multiple linear regression analysis reveal important insights into the impact of this predictor variable on the dependent variable. With an unstandardized coefficient (B) of 1.214, the results suggest that for every one-unit increase in decision-making supported by artificial intelligence technology, the predicted change in the dependent variable is 1.214 units, assuming other predictors are held constant. The standard error of 0.289 reflects the variability or uncertainty in this estimate. The standardized coefficient (Beta) of 0.621 is of particular significance, signifying that when all predictor variables are measured in standard deviation units, a one standard deviation increase in decision-making supported by AI technology corresponds to a 0.621 standard deviation increase in the dependent variable. This underscores the significant positive influence of AI-empowered decision-making on the comprehensive model, underscoring the crucial role of utilizing artificial intelligence technologies in strategic decision-making processes within the regression model's framework. The substantial positive impact signifies the pivotal contribution of AI to decision-making, emphasizing its importance in enhancing the overall efficacy and outcomes captured by the dependent variable. This reinforces the strategic imperative for organizations to incorporate AI-driven insights and analytics into their decision-making frameworks to navigate complexities, improve accuracy, and ultimately elevate the effectiveness of strategic choices.

The coefficient values associated with Improving Customer Experience Through AI Innovation (X3) in the multiple linear regression analysis provide significant insights into its influence on the dependent variable. With an unstandardized coefficient (B) of 0.946, the results indicate that for every one-unit increase in initiatives to improve customer experience through AI innovation, the predicted change in the dependent variable is 0.946 units, assuming other predictors are constant. The standard error of 0.198 reflects the variability or uncertainty in this estimate. The standardized coefficient (Beta) of 0.509 is noteworthy, suggesting that when all predictor variables are measured in standard deviation units, a one standard deviation increase in efforts to enhance customer experience through AI innovation corresponds to a 0.509 standard deviation increase in the dependent variable. This highlights the moderate yet positive influence of harnessing AI innovations for enhancing customer experiences within the regression model's framework, underscoring the strategic significance of AI in shaping favorable interactions and relationships with customers. The findings emphasize that integrating AI technologies to improve customer experiences has a meaningful impact on the overall model, signaling the importance of strategically implementing AI-driven solutions for creating positive and personalized engagements. This reinforces AI's role in optimizing

customer interactions and building lasting relationships that contribute to overall customer satisfaction and loyalty.

The F-square value of 47.342 in the multiple linear regression analysis holds significance as it indicates the overall statistical significance of the model. This statistic is derived from the ratio of the variance explained by the regression model to the variance not explained, and a higher F-square value suggests a more effective model. In this context, the F-square value implies that the regression model is statistically significant, indicating that at least one of the predictor variables (X1, X2, X3) significantly affects the dependent variable. A higher F-square value is associated with a stronger relationship between the predictors and the dependent variable. In practical terms, this implies that the combined impact of optimizing operational efficiency, employing AI-supported decision-making, and enhancing customer experiences through AI innovations plays a crucial role in substantially influencing the overall variance in the dependent variable. This highlights the model's robustness in elucidating and predicting outcomes, affirming the validity of the relationships between the selected predictors and the dependent variable within the established regression framework. The practical implication is that organizations can achieve more comprehensive and impactful results by strategically integrating AI across operational, decision-making, and customer-centric dimensions, contributing significantly to the overall effectiveness of the model in capturing and explaining relevant variations.

The R-square value of 0.783 in the multiple linear regression analysis is a critical metric that signifies the proportion of variance in the dependent variable explained by the model. In this case, the R-square value of 0.783 indicates that approximately 78.3% of the variability in the dependent variable is accounted for by the combined influence of operational efficiency (X1), decision-making supported by AI technology (X2), and efforts to improve customer experience through AI innovation (X3). This high R-square value suggests a robust fit of the model, underscoring the effectiveness of the selected predictor variables in explaining the observed variations in the dependent variable. While it is essential to acknowledge that not all variations may be captured, the R-square value serves as a valuable indicator of the explanatory power of the regression model, affirming the substantial impact of artificial intelligence-driven factors on the outcomes of interest within the specified analytical framework.

Conclusion and Recommendation

In summary, the article "Exploring Business Potential Through the Application of Artificial Intelligence: Impact Analysis on Operational Efficiency, Decision Making, and Customer Experience" employs multiple linear regression analysis to comprehensively explore the transformative role of Artificial Intelligence (AI) in business dynamics. The results highlight the substantial and collective impact of operational efficiency, AI-supported decision-making, and customer experience initiatives through AI innovation on the dependent variable, with a robust R-square value of 0.783. Each predictor variable demonstrates a significant positive influence, underscoring the strategic importance of integrating AI across operational, decision-making, and customer-focused dimensions. The statistically significant F-square value further validates the overall model. These findings reinforce the notion that AI adoption

enhances operational efficiency and significantly shapes decision-making processes and customer experiences, positioning AI as a pivotal driver of success and innovation in contemporary business landscapes. For future research, exploration of industry-specific variations, long-term effects, ethical considerations, and challenges associated with AI implementation would contribute to a more nuanced understanding of AI's multifaceted impact on business operations.

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