



# Use of AI-based Banking Applications for Customer Service

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# ABSTRACT

This paper explores the state-of-the-art advancements in AI-based banking applications and their impact on customer service, focusing on their capabilities, benefits, and potential challenges. The descriptive qualitative method is used to examine real-world applications of AI in banking, focusing on their operational mechanisms and influence on customer experiences. The data analysis process involves the following steps: Thematic Analysis, Comparative Analysis, and Content Analysis. AI technologies such as chatbots, virtual assistants, and fraud detection systems enhance operational efficiency, provide personalized experiences, and improve security in banking. AI-based banking applications have significantly enhanced customer service by improving operational efficiency, personalization, and security, leading to higher customer satisfaction. Future research can investigate frameworks for ensuring fairness, transparency, and accountability in AI-driven customer service systems.

Keywords: AI; Banking; Applications; Customer Service

Field: Marketing; Management, Technology

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SDGs: Quality Education (4); Decent Work and Economic Growth (8); Peace, Justice and Strong Institutions (16)

# **INTRODUCTION**

# **Research Introduction**

The integration of Artificial Intelligence (AI) in banking has revolutionized customer service, transforming it into a seamless, efficient, and highly personalized experience (Purwati et al., 2020). AI-based banking applications leverage advanced technologies such as machine learning, natural language processing (NLP), and predictive analytics to automate interactions, resolve queries, and offer tailored financial solutions to customers (Agusta & Yusnidar, 2024). These applications have emerged as vital tools for financial institutions to meet growing customer expectations, reduce operational costs (Arif et al., 2021), and enhance service accessibility (Kurnia et al., 2024).

The integration of Artificial Intelligence (AI) in banking has led to a remarkable shift in the industry, transforming customer service into a highly efficient, personalized, and seamless experience (Andriani et al., 2024). As digital banking continues to dominate (Renaldo, 2023; Sjödin et al., 2021), AI-powered solutions such as chatbots, virtual assistants, and voice recognition systems have become indispensable tools for financial institutions (Mukhsin et al., 2024). These technologies not only automate routine tasks but also enhance the overall banking experience by offering real-time assistance, predicting customer needs, and detecting fraudulent activities (Kardi et al., 2024).

The phenomena of AI in banking reflects the increasing reliance on automation and advanced analytics to provide tailored financial solutions, allowing customers to access services anytime, anywhere (Saputro et al., 2022). Through machine learning and natural language processing (NLP), banks can deliver personalized recommendations, improve decision-making, and streamline operations (Supriadi et al., 2024). Additionally,

predictive analytics helps in identifying trends and potential risks, enabling banks to proactively address issues before they escalate (Agusta et al., 2024).

However, this shift toward AI also raises important challenges, including concerns about data privacy, security, and the need for robust ethical frameworks. As AI systems become more integrated into banking operations, ensuring transparency, accountability, and fairness in algorithmic decision-making becomes critical. The balance between technological advancement and customer trust remains a key factor in the successful implementation of AI-driven banking services (Wijaya et al., 2020).

As customers increasingly prefer digital platforms for banking services, AI-powered applications provide real-time assistance through chatbots, virtual assistants, and voice recognition systems. Moreover, these technologies empower banks to anticipate customer needs, detect fraudulent activities, and improve decision-making processes. This paper explores the state-of-the-art advancements in AI-based banking applications and their impact on customer service, focusing on their capabilities, benefits, and potential challenges.

### State of the Art

AI-based banking applications have evolved significantly, incorporating cutting-edge technologies to improve customer service efficiency and user experience. Key advancements include:

- 1. Chatbots and Virtual Assistants
  - AI-driven chatbots, such as Bank of America's "Erica" and DBS Bank's "digibank," use NLP to understand and respond to customer inquiries in real time.
  - Virtual assistants provide 24/7 support, handling routine queries like balance inquiries, transaction history, and account management with minimal human intervention.
- 2. Predictive Analytics for Personalization
  - AI applications analyze historical data and customer behavior to offer personalized financial advice.
  - They recommend suitable products and services, such as credit cards, loans, or investment opportunities, based on customer profiles and financial goals (Amin et al., 2022; S. Chandra et al., 2023).
- 3. Fraud Detection and Security
  - AI-powered systems utilize anomaly detection to identify suspicious activities, such as unusual transaction patterns or login attempts.
  - Biometrics, including facial recognition and voice authentication, enhance security and reduce fraud risks.
- 4. Voice Recognition and Conversational AI
  - Voice-enabled banking solutions allow customers to perform transactions, check balances, and get assistance via voice commands.
  - Examples include Capital One's integration with Amazon Alexa and Wells Fargo's AI voice banking feature.
- 5. Sentiment Analysis and Customer Feedback
  - AI systems analyze customer interactions to gauge sentiment and improve service quality (Rahman & Wijaya, 2021).
  - Real-time feedback mechanisms help banks identify pain points and address customer concerns proactively.
- 6. Multilingual and Accessible Services
  - AI applications support multiple languages and cater to diverse customer demographics, ensuring inclusivity.
  - Accessibility features like text-to-speech and voice-to-text enhance the experience for differently-abled users.
- 7. Proactive Notifications and Alerts
  - AI systems provide customers with proactive alerts about payment due dates, spending habits, and saving opportunities, fostering better financial management.

- 8. Integration with Fintech and Open Banking
  - AI-based applications integrate seamlessly with third-party fintech platforms, enabling a broader range of services such as peer-to-peer payments, investment tracking, and cross-border transactions.

# LITERATURE REVIEW

# **Technology Acceptance Model (TAM)**

The TAM explains how users come to accept and use a technology. It focuses on two main factors:

- Perceived Usefulness (PU): The degree to which a person believes that using a particular system enhances their performance (Junaedi et al., 2023).
- Perceived Ease of Use (PEOU): The degree to which a person believes that using a system will be free of effort.

TAM can be applied to understand how customers perceive and adopt AI-based banking applications. It highlights how user-friendliness (Goh et al., 2022) and the perceived benefits of AI-powered chatbots or virtual assistants influence customer acceptance and satisfaction (Suyono et al., 2023).

# Servqual Model (Service Quality Model)

This theory evaluates service quality based on five dimensions:

- Tangibles: The appearance of physical facilities and tools.
- Reliability: The ability to perform services dependably and accurately.
- Responsiveness: The willingness to help customers promptly.
- Assurance: Employees' knowledge and courtesy, inspiring trust.
- Empathy: Providing personalized care to customers.

AI-based banking applications can be evaluated through this lens to assess whether they meet the dimensions of service quality, especially in terms of reliability, responsiveness, and assurance in handling customer queries.

### **Diffusion of Innovation (DOI) Theory**

DOI explains how, why, and at what rate new technologies spread within a population. The adoption of innovations is influenced by five characteristics:

- Relative Advantage: The degree to which the innovation is perceived as better than the existing solution.
- Compatibility: How well the innovation aligns with users' needs and values.
- Complexity: The perceived difficulty of using the innovation.
- Trialability: The extent to which the innovation can be tested before adoption.
- Observability: The visibility of the benefits of the innovation.

This theory can help analyze how AI-based banking applications spread among customers and banks. It provides insights into factors driving or hindering adoption, such as compatibility with customer habits and the visibility of efficiency gains.

### **Evolution of AI in Banking**

AI technologies have gradually transitioned from basic automation to advanced cognitive systems capable of mimicking human-like interactions. According to Sivarajah et al. (2017), the early use of AI in banking focused on back-office automation, such as fraud detection and credit scoring. However, advancements in machine learning and natural language processing (NLP) have expanded AI's role to customer-facing applications, including chatbots and virtual assistants.

Recent studies, such as those by Gomber et al. (2018), suggest that AI adoption is driven by the increasing demand for digital banking and the need for cost-effective, scalable solutions. The integration of AI into banking services aligns with the industry's push for operational efficiency, enhanced customer experiences, and competitive differentiation.

# AI Applications in Banking Customer Service

AI-based applications are being utilized across various aspects of banking to improve customer service:

- Chatbots and Virtual Assistants: Researchers such as (T. Chandra et al., 2024) highlight that AI chatbots enable 24/7 service availability and can handle large volumes of customer inquiries. For instance, Bank of America's "Erica" and HSBC's "Amy" demonstrate how AI can improve response times and reduce customer effort.
- Personalization: As noted by (Wijaya & Purba, 2021), AI's predictive analytics capabilities allow banks to analyze customer data and offer personalized financial advice, thereby enhancing customer loyalty and satisfaction.
- Fraud Detection and Security: Studies like those by (Junaedi, Renaldo, et al., 2024) emphasize AI's critical role in detecting fraudulent activities in real-time through pattern recognition and anomaly detection, thereby safeguarding customer accounts.

# **Benefits of AI-Based Applications**

AI applications offer several advantages, as discussed in the literature:

- Efficiency and Cost Savings: AI reduces the reliance on human customer service agents, as highlighted by (Hocky et al., 2020). This leads to significant cost savings while maintaining service quality.
- Enhanced Customer Experience: AI enables faster query resolution, proactive support, and personalized interactions, as noted by (Zulkifli et al., 2023).
- Scalability: AI systems can handle increasing customer demands without compromising service quality (Renaldo & Murwaningsari, 2023).

#### **Challenges in AI Adoption**

Despite its advantages, the adoption of AI in banking faces several challenges:

- Data Privacy and Security: Studies by (T. Chandra et al., 2018) highlight concerns over customer data misuse and compliance with data protection regulations like GDPR.
- Trust and Transparency: Customers often hesitate to trust AI systems due to a lack of transparency in decisionmaking processes (Mikalef et al., 2020).
- Integration with Legacy Systems: Banks struggle to integrate AI with traditional IT infrastructures, as pointed out by Marumbwa and Sibanda (2021).

# **METHODOLOGY**

### **Research Design**

The descriptive qualitative method is used to examine real-world applications of AI in banking, focusing on their operational mechanisms and influence on customer experiences (Creswell & Creswell, 2018; Sekaran & Bougie, 2016). By analyzing secondary data, this study seeks to identify patterns and draw insights into how AI-based systems improve efficiency and address customer needs.

### **Data Collection**

The study relies on secondary data sources, including:

- Case Studies: Examination of prominent AI-based banking applications, such as chatbots, virtual assistants, and fraud detection systems implemented by leading banks (e.g., Bank of America, JPMorgan Chase, and DBS Bank).
- Published Literature: Review of journal articles, conference papers, and industry reports discussing the adoption of AI in banking customer service.
- Industry Reports: Analysis of reports from consulting firms (e.g., Deloitte, PwC, McKinsey) and regulatory bodies on AI trends, challenges, and opportunities in banking.
- Online Articles and News: Insights from reputable technology and financial news platforms, such as Forbes, TechCrunch, and Financial Times.

# **Data Analysis**

The data analysis process involves the following steps:

- 1. Thematic Analysis: Identifying key themes related to the use of AI in banking, such as efficiency, personalization, customer satisfaction, and security. Categorizing findings under benefits, challenges, and emerging trends (Panjaitan et al., 2024).
- 2. Comparative Analysis: Comparing AI applications across different banks and regions to identify variations in implementation and outcomes (Putri & Afrizal, 2024).
- 3. Content Analysis: Analyzing textual data from academic and industry sources to highlight recurring ideas, trends, and innovative practices in AI adoption (Zarini & Serly, 2024).

### **Study Scope**

The study focuses on AI applications in banking customer service, including:

- Chatbots and Virtual Assistants
- Fraud Detection Systems
- Personalized Financial Recommendations
- Voice Recognition and Sentiment Analysis

#### Validation of Findings

The reliability of the findings is ensured through:

- Triangulation of data from multiple sources (case studies, literature, and reports).
- Cross-referencing insights with existing theories and models in AI and banking.

### **Ethical Considerations**

The study uses publicly available data, ensuring no breach of privacy or confidentiality. Proper attribution is provided for all secondary sources used in the research.

# **RESULTS AND DISCUSSION**

### The Role of AI-Based Applications in Banking

AI-based banking applications have become integral to customer service, with tools such as chatbots, virtual assistants, and fraud detection systems significantly enhancing operational efficiency. Banks such as Bank of America (with its "Erica" chatbot) and JPMorgan Chase (utilizing AI for contract analysis and customer interactions) exemplify the widespread adoption of these technologies (Harahap & Putri, 2024).

AI applications address customer needs by providing real-time support, automating routine queries, and offering personalized recommendations (Pertiwi & Aritonang, 2024). These capabilities not only improve customer satisfaction but also free up human resources for more complex tasks (Defitri & Dani, 2024). The shift to AI-enabled services aligns with the increasing demand for 24/7 banking, especially in a digital-first era where convenience is paramount (Purwati et al., 2023).

#### Benefits of AI for Customer Service in Banking

There are some benefits using AI for customer service in banking:

- Efficiency Gains: AI reduces response times by instantly addressing routine inquiries. Studies indicate that banks deploying AI-based systems report a 20-40% reduction in customer service costs.
- Personalization: AI leverages machine learning to analyze customer data and deliver tailored financial advice, fostering loyalty and satisfaction (Junaedi, Suhardjo, et al., 2024).
- Fraud Prevention: AI systems detect anomalies in transaction patterns, enabling real-time fraud detection and mitigation.

These benefits demonstrate the dual impact of AI on operational efficiency and customer experience. While automation reduces costs, the personalized interactions facilitated by AI enhance customer trust and engagement. This twofold advantage positions AI as a critical enabler of competitiveness in the banking sector.

# **Challenges in Adopting AI in Banking**

There are some challenges in adopting ai in banking:

- Data Privacy Concerns: Customers express apprehension about how their financial data is used and protected.
- Integration Issues: Banks with legacy IT systems face significant hurdles in implementing AI technologies.
- Trust and Transparency: Some customers lack confidence in AI systems due to the opacity of AI decisionmaking processes.

While AI has transformative potential, these challenges must be addressed to maximize its benefits. For instance, ensuring compliance with regulations like GDPR and implementing Explainable AI (XAI) can help build customer trust. Additionally, investing in robust IT infrastructure is essential for seamless AI integration.

### **Emerging Trends in AI-Based Banking**

Some emerging trends in AI-based banking, such as:

- Adoption of voice recognition and sentiment analysis for intuitive customer interactions.
- Integration of AI with blockchain for enhanced security in financial transactions.
- Development of hybrid AI-human customer service models to handle complex queries.

These trends indicate the evolving nature of AI applications in banking. By incorporating emerging technologies, banks can further enhance the scope and effectiveness of AI-based services. The hybrid model, in particular, addresses the limitations of AI in handling emotionally nuanced or complex issues, ensuring a balanced approach to customer service.

### **Result Linked with Technology Acceptance Model (TAM)**

AI-based banking applications have significantly enhanced operational efficiency, personalization, and fraud detection, leading to increased customer satisfaction. Tools like chatbots provide instant responses, while virtual assistants like Erica (Bank of America) streamline customer interactions.

Customers recognize the value of AI in improving the efficiency and accuracy of banking services, such as real-time query resolution and personalized financial recommendations (Perceived Usefulness). User-friendly interfaces and intuitive AI interactions, like voice-activated systems, reduce the effort required to access banking services, increasing customer adoption (Perceived Ease of Use).

#### **Result Linked with Servqual Model (Service Quality Model)**

AI applications demonstrate high reliability by offering consistent service 24/7, responsiveness by addressing queries in real time, and assurance through accurate fraud detection. Case studies like HSBC's AI-based assistant show that AI enhances service delivery and customer trust.

AI systems ensure accurate and dependable service, reducing human error (Reliability). Chatbots and virtual assistants provide instant solutions, meeting customer expectations for prompt service (Responsiveness). Advanced AI capabilities in fraud detection and secure transactions build confidence in the technology (Assurance). While AI struggles with emotional nuance, its ability to analyze data and tailor financial advice mimics personalized care (Empathy).

# **Result Linked with Diffusion of Innovation (DOI) Theory**

The adoption of AI-based banking applications varies across regions and demographics, with early adopters (e.g., tech-savvy customers and innovative banks) driving its initial success. Innovations like hybrid AI-human models cater to diverse customer needs, facilitating broader acceptance.

Customers perceive AI-based banking as more efficient and convenient than traditional methods, driving adoption (Relative Advantage). AI aligns with the growing demand for digital banking services, especially among younger, tech-oriented users (Compatibility). User-friendly AI systems, such as voice assistants, reduce perceived complexity and make the technology accessible to a broader audience (Complexity). Features like free trials for AI-powered financial tools or step-by-step onboarding encourage customers to test and adopt the technology (Trialability). Success stories from leading banks like JPMorgan Chase and DBS Bank showcase the tangible benefits of AI, making adoption more appealing to potential users (Observability).

#### CONCLUSION

# Conclusion

This study highlights the transformative impact of AI-based banking applications on customer service. AI technologies such as chatbots, virtual assistants, and fraud detection systems enhance operational efficiency, provide personalized experiences, and improve security in banking. Despite the significant benefits, challenges such as data privacy concerns, integration difficulties, and trust issues persist. Addressing these challenges is crucial for the successful and sustainable implementation of AI in banking.

AI-based banking applications have significantly enhanced customer service by improving operational efficiency, personalization, and security, leading to higher customer satisfaction. The integration of AI, such as chatbots and virtual assistants, aligns with the Technology Acceptance Model (TAM) by offering perceived usefulness and ease of use, driving adoption. The Servqual Model highlights the reliability, responsiveness, and assurance provided by AI in banking, reinforcing trust and service quality. Furthermore, the Diffusion of Innovation (DOI) theory underscores the importance of perceived advantages, compatibility, and accessibility in driving the widespread adoption of AI in banking, particularly through early adoption and successful case studies. Together, these theories provide a comprehensive understanding of the factors contributing to the success and growth of AI-based banking services.

#### Implications

For banks and financial institutions. The adoption of AI technologies can reduce operational costs and enhance customer satisfaction, thereby improving competitiveness. Investment in robust IT infrastructure and compliance with data protection regulations can address integration and privacy challenges. Emphasizing transparency through Explainable AI (XAI) can build customer trust and encourage adoption.

For policymakers and regulators. Clear guidelines and frameworks for AI implementation in banking are necessary to protect customer data and ensure ethical practices. Encouraging innovation while ensuring compliance with privacy laws can promote balanced growth in the sector.

For customers. Awareness and education about AI-based services can increase trust and acceptance, enabling smoother adoption of these technologies.

#### Limitations

The study relies on publicly available data, which may not fully capture proprietary details of AI implementation in banks. Most case studies are concentrated in developed countries, potentially limiting generalizability to regions with different technological maturity levels. AI technologies evolve quickly, making it challenging to capture the latest advancements and their long-term impacts.

### Recommendations

For banks. Invest in hybrid AI-human service models to combine the efficiency of AI with the empathy of human agents. Enhance customer awareness programs to educate users about AI capabilities, limitations, and data protection measures. Collaborate with technology providers to streamline integration with legacy systems.

For policymakers. Establish regulatory sandboxes to test AI applications in a controlled environment, ensuring safety and compliance. Promote cross-industry collaboration to develop standardized practices for AI deployment in banking.

For researchers. Explore interdisciplinary approaches to combine AI, behavioral economics, and customer psychology for deeper insights.

#### **Future Research**

Future research can investigate frameworks for ensuring fairness, transparency, and accountability in AIdriven customer service systems. Study the challenges and opportunities of implementing AI in banking sectors with limited resources or technological infrastructure. Conduct qualitative studies to understand customer attitudes toward AI-based services, focusing on trust, ease of use, and perceived value. Examine how AI adoption in banking reshapes the roles of customer service employees and impacts job satisfaction and productivity. Research the convergence of AI with blockchain, IoT (Mukhsin et al., 2023), and quantum computing in banking applications for enhanced security and efficiency.

#### REFERENCES

Agusta, M. A., & Yusnidar, Y. (2024). Revisiting the Future of International Marketing Strategy in the Digital

Age. Journal of Applied Business and Technology, 5(3), 164–192. https://doi.org/https://doi.org/10.35145/jabt.v5i3.185

- Agusta, M. A., Yusnidar, Y., & Rahmat, A. (2024). The Influence of Location on Purchasing Decisions at Indomaret Pasar Minggu in Tapung, Kampar Regency, Riau. *Luxury: Landscape of Business Administration*, 2(2), 106–115. https://doi.org/https://doi.org/10.61230/luxury.v2i2.92
- Amin, A. M., Angelia, R., Mukhsin, Eddy, P., & Yuliendi, R. R. (2022). The Effect of Product Quality, Price, and Word of Mouth on Packing Sticker Purchase Decision at CV. Blitz Media Kreasindo Pekanbaru City. *Journal of Applied Business and Technology*, 3(3), 214–225. https://doi.org/10.35145/jabt.v3i3.105
- Andriani, D., Suryatunnisak, S., & Yurnal, Y. (2024). The Effect of Service Quality and Price on Consumer Satisfaction at Ayam Penyet Ria Restaurant on Jl. Jendral Sudirman Pekanbaru. *Luxury: Landscape of Business Administration*, 2(2), 93–105. https://doi.org/https://doi.org/10.61230/luxury.v2i2.88
- Arif, I., Komardi, D., & Putra, R. (2021). Brand Image, Educational Cost, and Facility on Student Satisfaction and Loyalty at STIE Pelita Indonesia. *Journal of Applied Business and Technology*, 2(2), 118–133.
- Chandra, S., Tianto, A., Veronica, V., Ng, M., & David, D. (2023). The Influence of Products, Prices, Promotions, and Places on Purchase Decisions at PT. Arta Agrindo Subur Pratama Pekanbaru. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(1), 257–270. https://doi.org/https://doi.org/10.35145/icobima.v2i1.4084
- Chandra, T., Renaldo, N., Chandra, S., & Ng, M. (2024). Blue Management Accounting: Water Footprint, Cost, Efficiency, and Internal Control at WKP Corporation Headquarters. *Journal of Environmental Accounting* and Management, 12(2), 185–200. https://doi.org/10.5890/JEAM.2024.06.006
- Chandra, T., Renaldo, N., & Putra, L. C. (2018). Stock Market Reaction towards SPECT Events using CAPM Adjusted Return. *Opción, Año 34*(Especial No.15), 338–374.
- Creswell, J. W., & Creswell, J. D. (2018). Research Design: Qualitative, Quantitative, and Mixed Methods Approaches (Fifth). SAGE.
- Defitri, W., & Dani, D. (2024). The Influence of Communication in Increasing Work Productivity at PT. Global Technomedica Mandiri Pekanbaru. *Interconnection: An Economic Perspective Horizon*, 2(2), 60–69. https://doi.org/https://doi.org/10.61230/interconnection.v2i1.99
- Goh, M., Wijaya, E., Junaedi, A. T., & Hocky, A. (2022). Customer Interest in Using Mandiri M-Banking: Can Ease of Use, Trust, Information Technology Readiness, and Social Factors Affect It? International Conference on Business Management and Accounting (ICOBIMA), 1(1), 143–153.
- Harahap, S. H., & Putri, R. Y. (2024). The Influence of Product Quality, Price and Service Quality on Consumer Satisfaction at Dapoer Marpoyan Jl. Kaharudin Nasution Pekanbaru. Nexus Synergy: A Business Perspective, 2(1), 22–35. https://doi.org/https://doi.org/10.61230/nexus.v2i1.95
- Hocky, A., Lidyana, & Purwati, A. A. (2020). The Role of Servoce Quality and Trust on Consumer Loyalty at PT. Henson Alfa Gros Pekanbaru. *Journal of Applied Business and Technology*, 1(1), 51–59.
- Junaedi, A. T., Renaldo, N., Yovita, I., Augustine, Y., & Veronica, K. (2023). Uncovering the Path to Successful Digital Performance through Digital Technology and Digital Culture as Moderation. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(1), 71–81. https://doi.org/https://doi.org/10.35145/icobima.v2i1.3959
- Junaedi, A. T., Renaldo, N., Yovita, I., Veronica, K., & Jahrizal. (2024). Digital Culture Revolution in Improving Firm Performance in Indonesia. *Journal of System and Management Sciences*, 14(1), 452–470. https://doi.org/10.33168/JSMS.2024.0126
- Junaedi, A. T., Suhardjo, S., Renaldo, N., Purnama, I., Jessen, J., & Suranto, A. (2024). Analysis of Factors Affecting Customer Loyalty on CV Riau Building Pekanbaru. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(2), 348–361. https://doi.org/https://doi.org/10.35145/icobima.v2i2.4385
- Kardi, K., Hutahuruk, M. B., & Handoyo, L. T. (2024). The Effect of KUR and BLT Programs on MSME Performance with Differentiation Strategy as A Mediation Variable. *Interconnection: An Economic Perspective Horizon*, 2(2), 28–40. https://doi.org/10.61230/interconnection.v2i1.89
- Kurnia, D., Mukson, M., & Fuaddi, H. (2024). The Effect of Service Innovation on Public Satisfaction at the Office of Population and Civil Registration of Pekanbaru City. *Nexus Synergy: A Business Perspective*,

1(4), 236–247. https://doi.org/https://doi.org/10.61230/nexus.v1i4.86

- Mukhsin, M., Junaedi, A. T., Suhardjo, S., Renaldo, N., & Prayetno, M. P. (2024). The Role and Effectiveness of Accounting Information Systems in Modern Organizations: A Comprehensive Analysis. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(2), 362–367. https://doi.org/https://doi.org/10.35145/icobima.v2i2.4389
- Mukhsin, M., Renaldo, N., Junaedi, A. T., Veronica, K., & Cecilia, C. (2023). Innovative Approaches to Cloud-Based Accounting Information Systems: Integrating AI, Blockchain, and IoT. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(1), 288–294. https://doi.org/https://doi.org/10.35145/icobima.v2i1.4375
- Panjaitan, H. P., Vinson, V., Yani, F., Sitompul, S. S., Sari, O., & Lubis, W. M. C. (2024). Influence of Product Quality, Price, Brand Image and Promotion on Customer Satisfaction on Lazada (Case Study in Pekanbaru City Communities). *Proceeding of International Conference on Business Management and Accounting* (ICOBIMA), 2(2), 373–390. https://doi.org/https://doi.org/10.35145/icobima.v2i2.4391
- Pertiwi, V., & Aritonang, E. (2024). The Influence of Promotion and Price on Product Purchasing Decisions at XL Center Pekanbaru. *Luxury: Landscape of Business Administration*, 2(2), 116–126. https://doi.org/https://doi.org/10.61230/luxury.v2i2.98
- Purwati, A. A., Hamzah, Z., Hamzah, M. L., & Deli, M. M. (2023). Digital and Entrepreneurial Literacy in Increasing Students' Entrepreneurial Interest in the Technological Era. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(1), 34–43. https://doi.org/https://doi.org/10.35145/icobima.v2i1.3498
- Purwati, A. A., Rukmana, K., & Deli, M. M. (2020). The Effect of Personal Selling and Service Quality on Custumer Loyalty at PT. Wanriau IndoXP. *Journal of Applied Business and Technology*, 1(1), 1–7.
- Putri, D. S., & Afrizal, A. (2024). The Influence of Work Discipline on Employee Performance of PT. Sari Burger King, Pekanbaru Branch. Nexus Synergy: A Business Perspective, 2(1), 1–10. https://doi.org/https://doi.org/10.61230/nexus.v2i1.93
- Rahman, S., & Wijaya, A. (2021). Analysis of the Influence of Product Quality, Promotion, Brand Image and Lifestyle on Purchase Decision of Motorcycle Kawasaki KLX 150cc at PT. Greentech Cakrawala Motorindo in Pekanbaru. *Journal of Applied Business and Technology*, 2(1), 59–72.
- Renaldo, N. (2023). Digital Water Accounting: A Comprehensive Research Report. Proceeding of International Conference on Business Management and Accounting (ICOBIMA), 2(1), 300–305. https://doi.org/https://doi.org/10.35145/icobima.v2i1.4377
- Renaldo, N., & Murwaningsari, E. (2023). Does Gender Diversity Moderate the Determinant of Future Firm Value? *Review of Economics and Finance, 21,* 680–689. https://doi.org/https://doi.org/10.55365/1923.x2023.21.72
- Saputro, P. A., Irman, M., & Panjaitan, H. P. (2022). Quality of Socialization, Services, and Electronic Services on Taxpayer Satisfaction and Taxpayer Compliance at Kantor Pelayanan Pajak Madya Pekanbaru. *Journal* of Applied Business and Technology, 3(3), 287–301.
- Sekaran, U., & Bougie, R. (2016). Research Method for Business A Skill-Building Approach Seventh Edition (Seventh Ed). John Wiley & Sons. https://doi.org/10.1007/978-94-007-0753-5\_102084
- Sjödin, D., Parida, V., Palmié, M., & Wincent, J. (2021). How AI capabilities enable business model innovation: Scaling AI through co-evolutionary processes and feedback loops. *Journal of Business Research*, 134(May), 574–587. https://doi.org/10.1016/j.jbusres.2021.05.009
- Supriadi, S., Suryatunnisak, S., & Arfi, L. R. (2024). The Influence of Village Apparatus Services on Community Satisfaction at the Karya Indah Village Office, Tapung District, Kampar Regency. *Interconnection: An Economic Perspective Horizon*, 2(1), 18–27. https://doi.org/https://doi.org/10.61230/interconnection.v2i1.85
- Suyono, S., Ayu, D., Rusilawati, E., Kudri, W. M., & Renaldo, N. (2023). Marketing Mix on Customer Satisfaction at the Tax Consulting Office Dr. Sudarno, S. Pd., M. M., BKP and Colleagues Pekanbaru. *Journal of Applied Business and Technology*, 4(2), 198–213. https://doi.org/https://doi.org/10.35145/jabt.v4i3.135
- Wijaya, E., & Purba, A. W. (2021). The Influence of Price, Promotion, Location, and Servicescape on Customer Satisfaction in Pekanbaru Holiday Hotel. *Journal of Applied Business and Technology*, 2(1), 44–58.

- Wijaya, E., Suyono, & Santoso, P. H. (2020). Relationship of Marketing Tactics on Consumer Trust and Consumer Loyalty: The Case of Mega Sanel Lestari Pekanbaru. *Journal of Applied Business and Technology*, 1(1), 8–13.
- Zarini, I., & Serly, S. (2024). The Effect of Job Satisfaction on Employee Performance Study at The Zuri Hotel, Pekanbaru. Nexus Synergy: A Business Perspective, 2(1), 11–21. https://doi.org/https://doi.org/10.61230/nexus.v2i1.94
- Zulkifli, Z., Purwati, A. A., Renaldo, N., Hamzah, Z., & Hamzah, M. L. (2023). Employee performance of Sharia Bank in Indonesia : The mediation of organizational innovation and knowledge sharing. *Cogent Business & Management*, 10(3), 1–25. https://doi.org/10.1080/23311975.2023.2273609