(RESEARCH ARTICLE)

From branding to sales conversion: How AI-Powered CRM systems shape the customer journey for African SMEs

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Abstract

This study examines the impact of AI-powered Customer Relationship Management (CRM) systems on African Small and Medium-sized Enterprises (SMEs), focusing on how these systems enhance the customer journey, improve branding, and drive sales conversions. African SMEs face significant challenges, including limited access to finances and resources, lack of expertise, political instability, corruption, and lack of government support, which hinder their ability to scale and compete effectively. The study utilizes a combination of case studies and literature reviews to explore the application of AI-driven CRM tools across various sectors such as retail, agriculture, and services. It highlights the practical implementation of CRM platforms like HubSpot, Zoho, and Salesforce Einstein in helping SMEs automate customer interactions, optimize marketing strategies, and personalize customer experiences. Findings indicate that AI-powered CRM systems significantly streamline the customer journey for African SMEs by automating key processes such as lead nurturing, customer support, and personalized marketing. These systems improve brand consistency, foster stronger customer engagement, and increase sales conversion rates. Case studies from different sectors show how SMEs successfully utilize AI tools to tailor their services to customer needs and enhance their competitive edge. In conclusion, AI-powered CRM systems provide African SMEs with an affordable, scalable solution to overcome resource constraints and improve branding and customer service. To fully leverage these benefits, SMEs should adopt accessible AI tools like SaaS CRM platforms and focus on mobile-first strategies. Future research should explore the long-term impact of AI on SME growth, the effectiveness of different AI tools in regional markets, and strategies for overcoming barriers to AI adoption, such as technological and infrastructure limitations.

Keywords: Artificial Intelligence; Branding; Customer Relationship Management; Small and Medium-Sized Enterprises

1. Introduction

In Africa's dynamic and continuously expanding business landscape, small and medium-sized firms (SMEs) play a crucial role in promoting economic growth, employment, and innovation (Adeosun and Shittu, 2022). Often considered as the backbone of African economies, these businesses have particular difficulties promoting brand development and reaching sales conversion in a market that is competitive and technologically changing (Agbogun, 2022; van Scheers, 2017). The increasing significance of customer-centric initiatives, particularly in promoting brand exposure and loyalty, has made it important for African SMEs to implement tools and technology that enable seamless customer journey management (Madueke and Eyupoglu, 2024). In this context, Customer Relationship Management (CRM) systems driven by Artificial Intelligence (AI) are emerging as transformative technologies, offering unparalleled opportunities to optimize the customer journey and bridge the gap between branding and sales conversion (Ledro et al., 2023).

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The competitive landscape in African markets, characterized by different consumer tastes and increasing digital penetration, mandates the building of strong and long-term customer relationships (Signe, 2018). For SMEs, building brand loyalty is not just a strategy but a necessity to ensure repeat business, positive word-of-mouth, and sustained growth. However, achieving these demands more than traditional CRM practices; it requires leveraging advanced technologies such as AI to gain deeper insights into customer behaviors, preferences, and pain points. AI-powered CRM systems, with their ability to analyze vast amounts of data, predict trends, and personalize interactions, have emerged as game-changers for SMEs aiming to create meaningful and engaging customer experiences (Penubelli, 2024; Kao et al., 2024).

Despite the obvious potential of AI-driven CRM systems, there is a significant void in the literature concerning their impact on African SMEs. While global studies have highlighted CRM's function in improving customer connections and generating sales, little research has been conducted into how AI-powered CRM technologies contribute to brand building and sales conversion in the African setting. This review seeks to fill that gap by investigating how AI-powered CRM systems influence the customer journey, increase brand loyalty, and result in effective sales conversions for African SMEs. The objective is to provide a comprehensive understanding of how AI technologies, CRM systems, and the customer journey interact within Africa's unique business context. This study examines multiple stages of the customer experience, from awareness and engagement to purchase and retention, in order to identify the important touchpoints where AI-driven CRM systems can have a big influence.

This study analyzes the technological capabilities of AI-powered CRM systems, such as predictive analytics, tailored marketing, and real-time customer support, as well as the consequences for African SMEs. It will also examine the obstacles and opportunities connected with implementing these systems, providing insights into how SMEs can overcome barriers and effectively exploit AI technologies. By focusing on the African SME context, this review adds to the growing body of knowledge on digital transformation in emerging markets and makes actionable recommendations for entrepreneurs, technology providers, and policymakers looking to boost SME competitiveness with AI-driven CRM solutions.

2. Literature Review

This section provides foundational knowledge, offering an in-depth analysis of CRM systems, AI, and their impact on customer journeys.

2.1. Overview of CRM Systems

Customer Relationship Management (CRM) systems are technology-driven tools designed to manage and analyze customer interactions throughout the lifecycle of a business relationship (Buttle and Maklan, 2015). These systems help businesses centralize customer data, streamline communication, and improve engagement strategies, ultimately enhancing customer satisfaction and loyalty (Mellides, 2024). By integrating functionalities such as contact management, sales tracking, and customer support, CRM systems enable organizations to foster stronger relationships with their customers while improving operational efficiency.

For small and medium-sized enterprises (SMEs), CRM systems are critical in maintaining competitiveness, especially in markets where personalized customer experiences are increasingly expected (Taherdoost, 2023). However, traditional CRM approaches often pose challenges for SMEs, particularly in emerging markets like Africa. Legacy systems are typically costly to implement and maintain, requiring significant infrastructure and technical expertise that many SMEs lack. Additionally, traditional CRMs often focus on static data storage, offering limited insights into dynamic customer behaviors or preferences (Wilson et al., 2024).

In Africa, where SMEs face unique hurdles such as limited access to technology, resource constraints, and a diverse customer base, these limitations become even more pronounced (Raji, 2024). Without advanced features like real-time analytics or AI-driven insights, traditional CRMs fail to provide the adaptability and scalability needed to navigate the complexities of African markets. This underscores the need for innovative, AI-powered CRM systems tailored to the challenges and opportunities of SMEs in the region.

2.2. AI Integration in CRM Systems

Artificial Intelligence (AI) has revolutionized modern CRM systems, transforming how businesses engage with customers and optimize their operations (Penubelli, 2024). By incorporating advanced AI technologies, CRM systems have evolved from simple data management tools into intelligent platforms that deliver actionable insights and enhance customer experiences.

Machine learning is a cornerstone of AI-powered CRM systems, enabling them to analyze vast datasets, identify patterns, and predict customer behaviors (Chaitanya et al., 2023). This predictive capability allows businesses to anticipate customer needs, tailor recommendations, and proactively address potential issues, resulting in more effective engagement and retention strategies.

Predictive analytics complements machine learning by providing data-driven insights into customer trends, helping businesses make informed decisions about marketing strategies, resource allocation, and sales forecasting (Anozie et al, 2024). These insights empower SMEs to prioritize high-value customers and opportunities, maximizing their return on investment.

Natural Language Processing (NLP) enhances CRM systems by enabling them to understand and process human language. Through sentiment analysis, NLP allows businesses to gauge customer satisfaction, identify pain points, and refine their communication strategies (Presetyo et al., 2024). NLP also powers chatbots, which provide real-time, automated customer support. These virtual assistants can handle inquiries, resolve issues, and guide users through the purchasing process, offering 24/7 availability and reducing operational costs (Uzoka and Pascal, 2024).

Recommendation engines, driven by AI, further enhance personalization by analyzing individual customer preferences and suggesting relevant products or services (Alabi, 2024). This capability fosters deeper connections with customers and increases the likelihood of sales conversions.

By leveraging these AI technologies, modern CRM systems empower businesses to deliver highly personalized customer experiences, improve segmentation, and make data-driven decisions. For African SMEs, AI-powered CRM tools offer scalable and cost-effective solutions to navigate the complexities of diverse markets, strengthen customer relationships, and drive sustainable growth.

2.3. The Customer Journey

The customer journey encompasses the entire experience a customer has with a brand, from the initial point of awareness to becoming a loyal advocate (Lemon and Verhoef, 2016). This journey is typically divided into five stages: awareness, consideration, purchase, retention, and advocacy (Følstad and Kvale, 2018). Understanding and mapping these stages is crucial for businesses aiming to drive sales and build brand loyalty, as it ensures that every customer interaction is intentional and adds value.

At the awareness stage, potential customers discover a brand, often through marketing efforts (Hussin and Hishan, 2022). CRM systems help track leads and identify channels driving traffic. During consideration, customers evaluate the brand's offerings; AI-powered CRM tools provide personalized content and recommendations to address specific needs (Hollebeek et al., 2023). The purchase stage involves converting prospects into buyers, with CRM systems streamlining transactions and providing insights into customer preferences for a seamless experience (Reitsamer and Becker, 2024).

In the retention stage, maintaining engagement through personalized follow-ups and loyalty programs is key (Nasir, 2017). CRM tools monitor purchasing patterns and suggest retention strategies, such as special offers. Finally, in the advocacy stage, satisfied customers become brand ambassadors. CRM systems capture and leverage customer feedback, encouraging reviews and referrals.

By integrating data and insights across all stages, CRM systems optimize the customer journey, ensuring businesses meet customer expectations while fostering trust and loyalty. For African SMEs, well-mapped journeys supported by AI-driven CRM systems are instrumental in navigating competitive markets and achieving sustained growth.

2.4. Sales Conversion

Sales conversion refers to the process of transforming potential customers into paying clients, a critical metric that indicates the effectiveness of a business's marketing and sales strategies (Saco et al., 2020). For small and medium-sized enterprises (SMEs), optimizing this process is essential as it directly impacts revenue, profitability, and long-term growth (Sharabati et al., 2024). In competitive markets, particularly in emerging economies like Africa, where resource constraints are common, improving sales conversion rates is often a make-or-break factor for SMEs.

Successful sales conversion involves guiding customers through the sales funnel, typically structured into stages: awareness, interest, decision, and action. At each stage, businesses must engage customers with relevant and timely interactions to address their needs, build trust, and encourage purchases. CRM systems play a pivotal role in this

process, especially those enhanced with AI technologies, by enabling businesses to manage and optimize customer interactions efficiently (Ledro et al., 2023).

Studies show that CRM systems significantly improve conversion rates by delivering personalized and data-driven engagement (Nethanani et al., 2024; Iyelolu et al., 2024). One of the primary ways CRM systems achieve this is through timely communication. For instance, AI-powered CRMs can analyze customer behaviors and send automated, personalized follow-ups to nurture leads (Iyelolu et al., 2024). This ensures that potential customers receive the right message at the right time, increasing the likelihood of conversion.

Moreover, CRM systems enhance customer segmentation, allowing businesses to categorize leads based on demographics, preferences, and buying behaviors (Eslami, 2024). By tailoring marketing efforts to specific segments, SMEs can focus on high-probability leads, maximizing resource efficiency. Predictive analytics, a key feature in modern CRM systems, takes this further by forecasting which leads are most likely to convert, enabling sales teams to prioritize their efforts strategically (Habel et al., 2023).

Personalized customer experiences also play a vital role in improving conversion rates. CRM systems equipped with recommendation engines suggest products or services based on a customer's browsing history, purchase patterns, or expressed preferences (He et al. 2024). Such customization not only increases the chances of conversion but also enhances customer satisfaction and loyalty, fostering repeat business.

Additionally, CRM systems streamline the decision-making process for both customers and businesses. For customers, seamless integration of sales and support features, such as chatbots and real-time assistance, reduces friction in the purchasing journey (Husenov, 2023). For businesses, real-time data and analytics from CRM platforms enable better forecasting, inventory management, and strategic planning, ensuring readiness to meet customer demands.

Research specifically addressing SMEs highlights that those adopting CRM systems experience higher conversion rates and improved customer retention compared to their counterparts without CRM tools (Nethanani et al., 2024). In African markets, where SMEs face challenges such as diverse customer bases, limited digital literacy, and infrastructure gaps, AI-powered CRM systems offer scalable solutions to navigate these hurdles effectively.

Hence, CRM systems, particularly those leveraging AI, are invaluable in optimizing sales conversion by providing timely, personalized communication, improving lead management, and creating meaningful customer experiences. For African SMEs, adopting such tools can be transformative, enabling them to compete effectively, increase revenue, and build lasting customer relationships in a rapidly evolving business landscape.

2.5. Branding in the Customer Journey

Branding is a foundational element that influences customer perception and engagement at every stage of their journey, shaping their decisions and fostering loyalty (Bhowmick, 2022). A strong brand serves as the identity of a business, encompassing its values, promise, and personality. It resonates with customers emotionally, influencing how they perceive the brand and interact with it throughout their relationship.

Brand awareness is the first critical point in the customer journey (Kumaresan et al., 2022). It introduces customers to the brand and establishes its presence in their minds. A strong, recognizable brand captures attention and builds trust, making customers more likely to explore its products or services (Jahan et al., 2024). For SMEs, especially in competitive markets like Africa, creating brand awareness through consistent and strategic messaging can be the key to standing out.

Consistency in branding ensures that the message remains uniform across all touchpoints, whether through advertisements, social media, or customer service interactions. This consistency reinforces trust, as customers know what to expect from the brand. For example, a CRM system can help maintain consistent communication by centralizing data and ensuring brand-aligned interactions across all channels.

Messaging plays a pivotal role in guiding customers' purchasing decisions. Clear, authentic, and value-driven messaging aligns with customer needs and aspirations, fostering a deeper connection. Personalized messages, tailored through insights from CRM systems, can significantly enhance engagement and drive conversions by addressing specific customer pain points and preferences (Casaca andMiguel, 2024).

Finally, strong branding nurtures long-term loyalty by creating positive experiences and emotional bonds. Customers who resonate with a brand's values and experience seamless journeys are more likely to become repeat buyers and advocates (Rane et al., 2023). By integrating branding into every stage of the customer journey, businesses can transform one-time buyers into loyal ambassadors, amplifying their impact in competitive markets. For SMEs, leveraging branding effectively in the customer journey can be a game-changer for sustained growth and success.

3. AI-Powered CRM Systems and the Customer Journey for African SMEs

This explores how AI-driven CRM systems impact the customer journey and ultimately influence brand-building and sales conversions in African SMEs.

3.1. Enhancing Customer Awareness with AI

AI-powered CRM systems have revolutionized how SMEs in Africa can create and enhance awareness of their brands. For businesses operating in competitive and resource-constrained environments, AI offers innovative ways to execute marketing strategies that effectively reach and engage broader audiences (Haleem et al., 2022).

One of the primary ways AI improves brand awareness is through content personalization. AI-driven CRM systems analyze customer data, such as preferences, behaviors, and past interactions, to deliver tailored content that resonates with individual audiences (Penubelli, 2024). Personalized emails, newsletters, and recommendations increase engagement rates, making customers more likely to interact with the brand and explore its offerings (Haleem et al., 2022, Afifah, 2023).

AI also plays a significant role in targeted advertisements, enabling SMEs to optimize their marketing budgets by focusing on high-potential audiences (Wilson et al., 2024). Using predictive analytics, AI-powered CRMs can identify patterns and segment customers based on demographics, interests, and purchasing behaviors (Ghorban Tanhaei, et al. 2024). This allows SMEs to craft targeted campaigns that appeal to specific groups, increasing the effectiveness of digital ads on platforms like Google and Facebook.

Social media engagement is another area where AI proves invaluable. AI tools integrated into CRM systems can monitor social media trends, track mentions, and analyze sentiment, helping SMEs understand how their brand is perceived (Samira et al., 2024). Automated tools like chatbots further enhance engagement by responding to customer queries in real time, ensuring the brand remains visible and approachable (Husenov, 2022).

Moreover, AI-powered CRMs can suggest the optimal times to post content and recommend trending topics to capitalize on, ensuring marketing efforts align with audience behavior (Sathyamoorthy and Pattabiraman, 2024). Such capabilities amplify the reach of SMEs, helping them stand out in the crowded digital marketplace.

By leveraging AI in marketing strategies, African SMEs can overcome traditional barriers such as limited resources and diverse markets. These tools not only enhance brand awareness but also establish a foundation for meaningful customer relationships, driving growth and competitiveness.

3.2. AI for Customer Segmentation and Lead Generation

AI-powered algorithms are transforming how SMEs approach customer segmentation and lead generation by providing deeper, data-driven insights into customer behavior, preferences, and demographics (Kumar et al., 2024). For African SMEs operating in diverse and competitive markets, these technologies offer a cost-effective and efficient way to identify and engage high-value customers while optimizing marketing and sales efforts.

Traditional segmentation methods often rely on broad categories such as age, gender, or income level, which may not fully capture the complexities of customer needs and behaviors (Gichuru and Limiri, 2017). AI algorithms, however, can analyze vast amounts of data from various sources, such as purchase histories, online interactions, and social media activity, to create more granular and dynamic customer profiles (Kasem et al., 2024). For example, clustering algorithms can group customers based on shared buying behaviors, such as frequent purchasers or seasonal buyers, while natural language processing (NLP) can analyze feedback and reviews to identify sentiment and preferences. This level of detailed segmentation allows SMEs to tailor their marketing strategies to specific groups, ensuring that campaigns resonate with the unique needs of their audience.

AI-driven insights also enhance lead generation by identifying prospects with the highest potential to convert into loyal customers. Predictive analytics tools within AI-powered CRM systems assess data patterns to prioritize leads based on

factors like engagement history, likelihood of purchase, or alignment with previous successful conversions (Kumar et al., 2024, Penubelli, 2024). For instance, SMEs can use AI to track website behavior, such as pages visited or time spent on certain products, to identify warm leads. These insights help businesses focus their resources on prospects with the greatest chances of conversion, increasing efficiency and ROI.

AI-powered segmentation and lead generation also improve customer engagement by ensuring that marketing efforts deliver the right message to the right audience at the right time (Haleem et al., 2022). Recommendation engines, for example, suggest products or services tailored to individual customer preferences, while automated email campaigns adjust content based on real-time data (Fayyaz et al., 2024). By personalizing communication, SMEs can create more meaningful interactions, fostering trust and loyalty. Customers who feel understood and valued are more likely to remain loyal to the brand and become advocates, further amplifying the business's reach and reputation.

By leveraging these advanced insights, businesses can enhance efficiency, improve customer satisfaction, and build lasting relationships in an increasingly digital economy.

3.3. AI-Driven Personalization at the Consideration Stage

The consideration stage of the customer journey is pivotal, as potential buyers evaluate their options and weigh decisions about whether to engage with a particular brand (Rane et al., 2023). AI-powered Customer Relationship Management (CRM) systems play a transformative role in this phase by leveraging data to deliver personalized experiences that guide customers toward informed purchasing decisions while reinforcing the brand's value proposition (Kumar et al., 2024).

AI-driven recommendation engines analyze a customer's behavior, preferences, and purchase history to suggest products or services that align with their interests (Haleem et al., 2022). These recommendations are often presented as 'customers also bought', or 'recommended for you' prompts, which not only provide relevant options but also reduce the cognitive load for customers, making their decision-making process smoother. For SMEs, especially in African markets, these engines can highlight locally relevant or trending products, increasing the likelihood of conversion while building trust in the brand.

AI-powered CRMs also enable the delivery of dynamic, tailored content in real-time. For instance, SMEs can create email campaigns or website experiences that adjust content based on customer demographics, browsing patterns, or geographic location (Sharabati, 2024). A potential buyer browsing winter clothing might see personalized deals or styling tips for their region, ensuring that every interaction feels relevant and valuable. Dynamic content enhances engagement by showing customers that the brand understands and prioritizes their needs, creating a deeper emotional connection (Gokarna, 2021).

AI-powered chatbots are instrumental at the consideration stage, providing instant support and guidance. These tools can answer customer inquiries, suggest products based on preferences, and even simulate one-on-one interactions to help resolve doubts or concerns (Kumar et al., 2024). For example, a chatbot might assist a customer in choosing between product options by comparing features, prices, or reviews. Such proactive and personalized engagement builds confidence in the purchasing process and keeps the customer aligned with the brand's messaging.

Throughout the consideration stage, AI tools ensure that the brand's values and unique selling points remain consistent (Haleem et al., 2022). Whether through personalized product suggestions, tailored content, or empathetic chatbot interactions, these technologies reinforce trust and loyalty by showcasing the brand's attentiveness and commitment to meeting customer expectations.

By personalizing the customer journey during the consideration stage, AI-powered CRMs enable SMEs to create impactful, relevant experiences that not only guide customers toward purchase decisions but also leave lasting impressions of value and reliability.

3.4. Sales Conversion and CRM Optimization

AI-driven CRM systems have revolutionized sales conversion by leveraging data-driven insights and automation to optimize customer interactions. These systems enhance conversion rates through several key functionalities: automating follow-up communication, optimizing pricing strategies, sending timely reminders, and offering personalized promotions.

Automated follow-up communication is crucial in maintaining engagement with potential customers (Gravilla et al., 2023). AI-driven CRMs can schedule and send personalized emails or messages based on user actions, such as product inquiries or abandoned carts. This timely outreach ensures that no opportunity is missed, nurturing leads through their buying journey without manual intervention.

Pricing strategies are optimized by AI's ability to analyze customer behavior, competitor pricing, and market trends (Awais, 2024). By using dynamic pricing, AI systems adjust prices in real-time, offering discounts or promotions that appeal to customers at critical moments. This approach increases the likelihood of closing sales by providing competitive, attractive offers tailored to each buyer's behavior.

Timely reminders sent by AI-driven CRMs help to keep customers engaged and prevent opportunities from slipping through the cracks (Rafalki, 2024). These reminders could be related to upcoming product releases, special offers, or pending actions, such as completing a purchase. By ensuring customers are always informed, these systems maintain high levels of engagement, reducing churn.

Personalized promotions are one of the most effective ways AI optimizes sales conversion. By analyzing a customer's past behavior, preferences, and interactions, AI can tailor offers to match their specific needs and desires (Haleem et al., 2024). This personalization significantly boosts the likelihood of conversion by presenting customers with relevant, appealing products or services at the right moment.

By delivering targeted messages at key touchpoints throughout the customer journey, AI-driven CRM systems ensure that the sales process is aligned with the customer's needs, resulting in improved conversion rates and customer satisfaction.

4. The Role of AI in Overcoming Sales and Branding Challenges for African SMEs

This section focuses on the unique challenges African SMEs face and how AI-powered CRM systems can address these issues.

4.1. Challenges for African SMEs

SMEs in Africa face numerous challenges that limit their growth and competitiveness in the global market. A major obstacle is the scarcity of resources. Operating on tight budgets and with minimal human capital, these businesses often struggle to invest in advanced technologies, robust marketing strategies, and employee training (Murithi, 2017). This forces them to focus on immediate operational needs rather than long-term growth and innovation, leaving them disadvantaged compared to larger firms with more resources.

Access to financing also remains a dominant issue. SMEs often struggle to secure loans due to stringent lending requirements, lack of collateral, high-interest rates, and the limited availability of financial products tailored to their needs (Quartey et al., 2017, Muriithi, 2017). This financial gap restricts their capacity for expansion and innovation. Poor management, competency, and capability are also prevalent challenges. Many SME operators lack formal managerial training, technical expertise, and strategic planning skills, limiting their ability to adapt to market dynamics or leverage growth opportunities effectively (Kanu, 2022, Tshibangu, 2019, Gyamera et al., 2023). The negative perception of SMEs further complicates their operations (Muriithi, 2017). These enterprises are often viewed as informal, unreliable, or high-risk by financial institutions, potential investors, and even customers. This stigmatization reduces their access to essential resources and markets.

Another challenge is lack of access to reliable information (Muriith, 2017). Many SMEs face difficulties obtaining timely and accurate market, financial, or regulatory information necessary for informed decision-making (Brandy, 2023). In addition to these, Government support and corruption exacerbate the struggles of SMEs (Kanu, 2015, Muriithi, 2017). Inconsistent policies, bureaucratic red tape, and corruption often create barriers to entry and growth. These issues undermine the trust and efficiency needed for SMEs to thrive in a competitive environment. Political instability and ethnic violence are another problem, creating an unpredictable business climate, discouraging investment and disrupting supply chains (Krammer and Kafouros, 2022). Finally, a lack of coordination between SMEs, government agencies, and support institutions limits the sharing of resources, knowledge, and opportunities (Muriithi, 2017).

Collectively, these challenges contribute to low sales conversion rates, which remain a critical issue for many SMEs. Without clear strategies for lead generation, nurturing, and targeted outreach, they struggle to turn potential leads into

paying customers. The absence of structured sales processes results in lost revenue and limited opportunities for growth, perpetuating a cycle of financial and operational constraints.

4.2. AI as a Solution

AI-powered CRM systems can address resource constraints and enhance competitiveness. These tools can automate tasks like lead nurturing, customer segmentation, and data analysis, reducing workload and ensuring consistent customer engagement (Haleem et al., 2022; Iyelolu et al., 2024). By shifting focus from routine tasks to strategic growth, SMEs can optimize operations efficiently. Affordable cloud-based, pay-as-you-go models eliminate high upfront costs, making advanced CRM accessible and scalable for growing businesses (Al-Sharafi et al., 2023). Additionally, AI-driven features like predictive analytics and targeted marketing enable SMEs to compete with larger firms, empowering them to make data-driven decisions, strengthen customer relationships, and build a robust market presence (Kumar et al., 2024).

Furthermore, AI-powered CRM systems can revolutionize customer engagement for African SMEs, enabling personalized communication, lead nurturing, and enhanced customer support (Penubelli, 2024. Iyelolu et al., 2024). By analyzing customer data, such as purchase history and browsing behavior, AI delivers tailored messages, offers, and recommendations, fostering loyalty and helping SMEs stand out in competitive markets (Babatunde et al., 2024; Haleem et al., 2022). These systems also automate lead nurturing with timely follow-ups, like reminders for abandoned carts, boosting conversion rates. Additionally, AI-driven chatbots provide 24/7 support, handling routine inquiries and directing complex issues to appropriate channels (Ekechi et al., 2024). This ensures consistent, efficient service, empowering SMEs to maintain strong customer relationships despite limited staff and resources.

In addition, African SMEs often struggle with the quality and completeness of customer data when implementing CRM systems. In many cases, incomplete, inaccurate, or inconsistent data can hinder informed decision-making. However, AI-powered CRM systems can address these challenges through intelligent data augmentation and cleaning techniques. AI systems enhance incomplete data by leveraging machine learning and integrating third-party sources (Aldoseri et al., 2023). For example, partial customer contact details can be supplemented by analyzing related data points, creating a comprehensive and accurate customer profile. This allows SMEs to communicate more effectively and tailor their services to individual needs.

AI-powered CRMs also improve data quality by detecting and correcting errors, such as duplicates or outdated information (Pookandy, 2022). By ensuring the data is reliable and consistent, businesses can make better decisions and enhance customer interactions. Even with incomplete data, AI-driven predictive analytics uncover patterns and trends, enabling SMEs to anticipate customer needs, refine marketing strategies, and boost sales efforts (Okeleke et al., 2024). This ensures SMEs can harness CRM systems' potential for growth, even in data-limited environments.

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5. Practical Application

AI-powered CRM systems are helping African SMEs across various sectors improve brand loyalty and sales conversion. Case studies from retail, agriculture, and services demonstrate how these tools enhance customer relationships and drive business growth.

5.1. SMEs and AI-CRM in Africa

In the retail industry, African SMEs face the challenge of engaging a diverse customer base. A notable example is Jumia, one of Africa's leading e-commerce platforms, which implemented AI-driven CRM tools to personalize customer experiences (This Day, 2024). By utilizing AI for customer segmentation, Jumia tailored promotions and product recommendations based on past purchases and browsing behavior (Brobbey et al., 2021). This approach increased conversion rates and enhanced customer loyalty, as shoppers received offers and products aligned with their preferences. AI-driven chatbots were also introduced to provide real-time customer support, improving service delivery and satisfaction.

In the agricultural sector, Farmcrowdy, a Nigerian agri-tech startup, leveraged AI-powered CRM tools to streamline communication with farmers and investors (Atuahene-Gima and Amuzu, 2024). By using platforms like Zoho CRM, Farmcrowdy automated customer engagement and improved follow-up with investors and farmers. This enhanced communication allowed the company to provide timely updates on farming progress, boosting investor confidence and fostering stronger relationships with farmers. The personalized interaction increased customer satisfaction and retention, ultimately driving higher investments and repeat engagements.

In the services sector, Andela, a Nigerian technology company that trains software engineers, implemented HubSpot CRM to improve lead nurturing and enhance customer service (Andela, 2024). By using AI to automate follow-up emails, track customer interactions, and segment leads based on their needs, Andela increased its conversion rates and built stronger relationships with both corporate clients and job candidates (Andela, 2024). Personalized outreach allowed Andela to position itself as a trusted partner, fostering long-term loyalty and improving recruitment outcomes.

5.2. Real-World AI Tools for African SMEs

Several AI tools and platforms are accessible to African SMEs, helping them optimize the customer journey from awareness to conversion and loyalty. One of these is HubSpot CRM. HubSpot CRM is widely recognized for its user-friendly interface and extensive automation capabilities. The platform allows businesses to manage customer interactions efficiently, track sales pipelines, and personalize marketing campaigns (Ravichandran, 2024). It is particularly beneficial for SMEs looking to streamline their operations and enhance customer engagement. HubSpot's AI-driven tools enable businesses to automate email marketing campaigns, segment leads effectively, and monitor customer behavior (Sathyamoorthy and Pattabiraman, 2024). By delivering timely and relevant content, companies can strengthen relationships and drive growth.

Another tool is Zoho CRM, which integrates AI-powered assistant, Zia, to support businesses with data-driven decision-making (Sathyamoorthy and Pattabiraman, 2024). Zia helps analyze data, score leads, and forecast sales, making it easier for SMEs to prioritize opportunities (Zoho, 2024). Additionally, the platform automates routine tasks and provides sentiment analysis to optimize customer interactions. These features empower SMEs to refine their sales strategies, increase conversion rates, and improve customer retention, ensuring long-term success.

Salesforce Einstein also offer advanced AI tools designed for sales, service, and marketing functions (Patnaik, 2024). The platform is particularly valuable for African SMEs aiming to scale operations while maintaining strong customer relationships. Einstein predicts customer needs, delivers personalized recommendations, and automates responses, enhancing customer service and satisfaction (Komera, 2024). These capabilities allow businesses to provide tailored solutions, build loyalty, and remain competitive in a dynamic market.

By implementing these AI-powered CRM systems, African SMEs can overcome challenges related to limited resources and improve their customer engagement, leading to higher sales conversion rates and greater brand loyalty

6. Barriers to AI-Adoption and Solutions

African SMEs face several challenges in adopting AI-powered CRM systems, which limits their ability to leverage these tools for growth and competitiveness.

One of these obstacles is technological and infrastructure limitations. Poor internet connectivity, limited technological infrastructure, and low digital literacy significantly hinder the adoption of AI solutions (Adel, 2024). Unreliable internet access makes it difficult for SMEs to utilize cloud-based AI tools effectively (Mhlongo et al., 2024). Furthermore, employees with limited digital literacy may struggle to operate advanced CRM systems. Addressing these challenges requires innovative strategies, such as adopting cloud-based AI tools that demand minimal local infrastructure and can be accessed anywhere with internet access. Mobile-first strategies are particularly impactful in Africa, where mobile usage is widespread. Mobile-based CRM solutions offer affordable alternatives, enabling SMEs to access AI tools without the need for extensive infrastructure investments.

Another obstacle is cost and resource constraints. High upfront costs and a lack of in-house technical expertise also serve as significant barriers (Uwagaba, 2023). Implementing AI systems often requires substantial financial investment in software and staff training. To mitigate these issues, SMEs can turn to affordable Software-as-a-Service (SaaS) CRM platforms like HubSpot, Zoho, and Salesforce Einstein, which offer flexible pricing models. These models allow businesses to pay only for the features they need. Additionally, government initiatives such as grants or digital transformation incentives, as well as collaborations with tech startups, can provide SMEs with the funding and expertise needed for AI adoption.

Lastly, cultural and market dynamics are another challenge in the adoption of AI-solutions by SMEs in Africa (Uwagaba,2023). The region's diverse cultural and linguistic landscape necessitates customized AI solutions. Tailoring systems to include regional languages, customer preferences, and behaviors ensures relevance to local markets. AI tools adapted for specific sectors, such as agriculture or retail, further enhance their practicality, helping SMEs overcome these cultural and market barriers effectively.

7. Conclusion

In conclusion, AI-powered CRM systems offer African SMEs substantial opportunities to improve branding, boost sales conversions, and streamline their customer journeys with AI-powered CRM solutions. Businesses can use these systems to automate consumer interactions, customize communications, and improve marketing tactics by using data-driven insights. SMEs may increase consumer engagement, foster loyalty, and develop more consistent branding by utilizing AI. These benefits eventually result in increased conversion rates and business expansion. By automating repetitive processes, AI solutions also assist in overcoming resource constraints, allowing SMEs to compete with larger businesses while having fewer resources.

Adopting AI-powered CRM systems can help African SMEs improve their customer relationships and overall business effectiveness. To get started, SMEs should look for accessible and scalable CRM solutions, such as SaaS platforms, that provide AI capabilities at a reasonable cost. These solutions can improve customer service by automating responses and assuring individualized communication, as well as assist firms in fine-tuning their marketing tactics to produce better sales results.

Looking ahead, there are several areas for further research. One key area is the long-term impact of AI on the scalability and profitability of African SMEs, particularly in diverse industries and regions. Research could also explore the most effective AI tools for specific sectors such as retail, agriculture, or services, taking into account regional market dynamics and cultural considerations. Additionally, understanding the challenges SMEs face in adopting AI, including technological limitations and infrastructure gaps, will provide valuable insights into how these barriers can be addressed to ensure successful AI implementation across the continent.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

References

[1]   Adel N. The impact of digital literacy and technology adoption on financial inclusion in Africa, Asia, and Latin America. Heliyon. 2024;10(24). https://doi.org/10.1016/j.heliyon.2024.e40951

[2]   Adeosun OT, Shittu AI. Small–medium enterprise formation and Nigerian economic growth. Review of Economics and Political Science. 2022;7(4):286-301. https://doi.org/10.1108/REPS-07-2020-0089

[3]   Agbogun EC. Successful marketing strategies for sustaining Nigerian small and medium enterprises. Walden Dissertations and Doctoral Studies Collection. 2022. Available at: https://scholarworks.waldenu.edu/cgi/viewcontent.cgi?article=14416&context=dissertations

[4]   Alabi M. AI-powered product recommendation systems: Personalizing customer experiences and increasing sales. 2024.

[5]   Aldoseri A, Al-Khalifa KN, Hamouda AM. Re-thinking data strategy and integration for artificial intelligence: Concepts, opportunities, and challenges. Appl Sci. 2023;13:7082. https://doi.org/10.3390/app13127082

[6]   Al-Sharafi MA, Iranmanesh M, Al-Emran M, et al. Determinants of cloud computing integration and its impact on sustainable performance in SMEs: An empirical investigation using the SEM-ANN approach. Heliyon. 2023;9(5). https://doi.org/10.1016/j.heliyon.2023.e16299

[7]   Andela. Why Andela? 2024. Available at: https://www.andela.com/why-andela

[8]   Anozie UC, Onyenahazi OB, Ekeocha PC, et al. Advancements in artificial intelligence for omnichannel marketing and customer service: Enhancing predictive analytics, automation, and operational efficiency. International Journal of Science and Research Archive. 2024;12(2):1621-1629. Available at: https://ijsra.net/sites/default/files/IJSRA-2024-1436.pdf

[9]   Atuahene-Gima K, Amuzu J. Farmcrowdy: Digital business model innovation for farming in Nigeria. Emerging Economies Case Studies. 2019;9(2). https://doi.org/10.1108/EEMCS-03-2019-0065

[10] Awais M. Optimizing dynamic pricing through AI-powered real-time analytics: The influence of customer behavior and market competition. Qlantic Journal of Social Sciences. 2024;5:99-108. https://doi.org/10.55737/qjss.370771519

[11] Babatunde S, Odejide O, Edunjobi T, Ogundipe D. The role of AI in marketing personalization: A theoretical exploration of consumer engagement strategies. International Journal of Management & Entrepreneurship Research. 2024;6(3):936-949. https://doi.org/10.51594/ijmer.v6i3.964

[12] Bhowmick D. Impact of brand design on consumer perception and decision making. International Journal of Business Forecasting and Marketing Intelligence. 2022;7:375. https://doi.org/10.1504/IJBFMI.2022.125791

[13] Brandy S. Overcoming challenges and unlocking the potential: Empowering small and medium enterprises (SMEs) with data analytics solutions. International Journal of Information Technology and Computer Science Applications. 2023;1:150-160. https://doi.org/10.58776/ijitcsa.v1i3.47

[14] Brobbey E, Ankrah E, Kankam P. The role of artificial intelligence in integrated marketing communications: A case study of Jumia Online Ghana. Inkanyiso. 2021;13:17. https://doi.org/10.4102/ink.v13i1.21

[15] Buttle F, Maklan S. Customer relationship management: Concepts and technologies. 2015. https://doi.org/10.4324/9781351016551

[16] Casaca J, Miguel L. The influence of personalization on consumer satisfaction: Trends and challenges. 2024. https://doi.org/10.4018/979-8-3693-3455-3.ch010

[17] Chaitanya K, Gonesh D, Saha G, et al. The impact of artificial intelligence and machine learning in digital marketing strategies. European Economics Letters. 2023;13:982-992. https://doi.org/10.52783/eel.v13i3.393

[18] Ekechi C, Chukwurah E, Oyeniyi L, Okeke C. AI-infused chatbots for customer support: A cross-country evaluation of user satisfaction in the USA and the UK. International Journal of Management & Entrepreneurship Research. 2024;6(4):1259-1272. https://doi.org/10.51594/ijmer.v6i4.1057

[19] Eslami E, Razi N, Lonbani M, Rezazadeh J. Unveiling IoT customer behaviour: Segmentation and insights for enhanced IoT-CRM strategies: A real case study. Sensors. 2024;24:1050. https://doi.org/10.3390/s24041050

[20] Farmcrowdy. 2024. Available at: https://farmcrowdy.com

[21] Fayyaz Z, Ebrahimian M, Nawara D, Ibrahim A, Kashef R. Recommendation systems: Algorithms, challenges, metrics, and business opportunities. Appl Sci. 2020;10:7748. https://doi.org/10.3390/app10217748

[22] Følstad A, Kvale K. Customer journeys: A systematic literature review. Journal of Service Theory and Practice. 2018;28(2):196-227. https://doi.org/10.1108/JSTP-11-2014-0261

[23] Gavrila S, González-Tejero C, Gandía J, Ancillo A. The impact of automation and optimization on customer experience: A consumer perspective. Humanities and Social Sciences Communications. 2023. https://doi.org/10.1057/s41599-023-02389-0

[24] GhorbanTanhaei H, Boozary P, Sheykhan S, et al. Predictive analytics in customer behavior: Anticipating trends and preferences. Results in Control and Optimization. 2024;17. https://doi.org/10.1016/j.rico.2024.100462

[25] Gichuru MJ, Limiri EK. Market segmentation as a strategy for customer satisfaction and retention. International Journal of Economics, Commerce and Management. 2017;5. Available at: https://ijecm.co.uk/wp-content/uploads/2017/12/51231.pdf

[26] Gokarna P. Study of customer engagement through emotional branding. Shanlax International Journal of Management. 2021;8:11-20. https://doi.org/10.34293/management.v8i3.3455

[27] Gyamera E, Abayaawien Atuilik W, Eklemet I, et al. Examining the effect of financial accounting services on the financial performance of SMEs: The function of information technology as a moderator. Cogent Business & Management. 2023;10(2). https://doi.org/10.1080/23311975.2023.2207880

[28] Habel J, Alavi S, Heinitz N. A theory of predictive sales analytics adoption. AMS Rev. 2023;13:34–54. https://doi.org/10.1007/s13162-022-00252-0

[29] Haleem A, Javaid M, Qadri MA, et al. Artificial intelligence (AI) applications for marketing: A literature-based study. Int J Intell Networks. 2022;3:119–32. https://doi.org/10.1016/j.ijin.2022.08.005

[30] He X, Liu Q, Jung S. The impact of recommendation system on user satisfaction: A moderated mediation approach. J Theor Appl Electron Commer Res. 2024;19:448–66. https://doi.org/10.3390/jtaer19010024

[31] Hollebeek LD, Urbonavicius S, Sigurdsson V, Arvola R, Clark MK. Customer journey value: A conceptual framework. J Creating Value. 2023;9(1):8–26. https://doi.org/10.1177/23949643231157155

[32] Huseynov F. Chatbots in digital marketing: Enhanced customer experience and reduced customer service costs. 2023. https://doi.org/10.4018/978-1-6684-7735-9.ch003

[33] Hussin K, Hishan S. The implementation of brand awareness strategies to attract new customer to the company. Int J Acad Res Bus Soc Sci. 2022;12. https://doi.org/10.6007/IJARBSS/v12-i1/12178

[34] Iyelolu T, Agu E, Ijomah T. Improving customer engagement and CRM for SMEs with AI-driven solutions and future enhancements. Int J Small Bus Entrep Res. 2024;236–52.

[35] Jahan T, Jahan A, Pallavi M, Alekhya M, Lakshmi M. A study on importance of branding and its effects on products in business. Int Res J Adv Eng Manag (IRJAEM). 2024;2:656–61. https://doi.org/10.47392/IRJAEM.2024.0091

[36] Kanu A. An investigation into the challenges to SMEs development in Africa. Int J Econ Commer Manag. 2022;10. Available from: https://ijecm.co.uk/wp-content/uploads/2022/01/1013.pdf

[37] Kanu AM. The effect of corruption on small and medium enterprises: Perspective from a developing country. Eur Centre Res Train Dev UK. 2015;3:12–27. Available from: https://www.eajournals.org/wp-content/uploads/The-effect-of-Corruption-on-Small-and-Medium-Enterprises-Perspective-from-a-Developing-Country1.pdf

[38] Kao B, Elly B, Brown E. AI-powered customer relationship management: Improving customer satisfaction and loyalty. 2024.

[39] Kasem MS, Hamada M, Taj-Eddin I. Customer profiling, segmentation, and sales prediction using AI in direct marketing. Neural Comput Appl. 2024;36:4995–5005. https://doi.org/10.1007/s00521-023-09339-6

[40] Kommera AR. Integration of Salesforce Einstein AI in customer relationship management. Int J Comput Eng Technol (IJCET). 2024;15(4):897–914. Available from: https://iaeme.com/MasterAdmin/Journal_uploads/IJCET/VOLUME_15_ISSUE_4/IJCET_15_04_078.pdf

[41] Krammer SMS, Kafouros MI. Facing the heat: Political instability and firm new product innovation in sub-Saharan Africa. J Prod Innov Manag. 2022;39(5):604–42. https://doi.org/10.1111/jpim.12623

[42] Kumar V, Ashraf AR, Nadeem W. AI-powered marketing: What, where, and how? Int J Inf Manag. 2024;77. https://doi.org/10.1016/j.ijinfomgt.2024.102783

[43] Kumaresan R, Chakkaravarthy, Samydoss C. Brand awareness: Understanding its role in sales, consumer intentions, and decision making. 2024;7:579–85. https://doi.org/10.5281/zenodo.12247092

[44] Ledro C, Nosella A, Pozza ID. Integration of AI in CRM: Challenges and guidelines. J Open Innov Technol Mark Complex. 2023;9. https://doi.org/10.1016/j.joitmc.2023.100151

[45] Lemon KN, Verhoef PC. Understanding customer experience throughout the customer journey. J Mark. 2016;80(6):69–96. https://doi.org/10.1509/jm.15.0420

[46] Madueke CJ, Eyupoglu S. Sustaining economic growth: E-service quality's role in fostering customer loyalty in Nigeria SMEs. Sustainability. 2024;16(21):9175. https://doi.org/10.3390/su16219175

[47] Mellides C. Benefits and advantages of CRM. TechnologyAdvice. 2024. Available from: https://technologyadvice.com/blog/sales/challenges-of-crm/

[48] Mhlongo NZ, Usman FO, Odeyemi O, et al. Reviewing the impact of cloud computing on small and medium enterprises in Africa. Int J Sci Res Arch. 2024;11(1):1444–51. https://doi.org/10.30574/ijsra.2024.11.1.0236

[49] Muriithi S. African small and medium enterprises (SMEs) contributions, challenges and solutions. Int J Res Reflect Manag Sci. 2017;5:13. Available from: https://www.researchgate.net/publication/315516536

[50] Nasir S. Customer retention strategies and customer loyalty. 2017. https://doi.org/10.4018/978-1-5225-1793-1.ch054

[51] Nethanani R, Matlombe L, Vuko S, Thango B. Customer relationship management (CRM) systems and their impact on SMEs performance: A systematic review. Preprints. 2024. https://doi.org/10.20944/preprints202410.1538.v1

[52] Patnaik R. Salesforce Einstein GPT: Pioneering generative AI in CRM technology. Int J Sci Res (IJSR). 2024. https://doi.org/10.21275/SR24523234811

[53] Penubelli VR. AI-powered CRMs: Revolutionizing customer engagement and business growth. Int J Adv Res Eng Technol. 2024;15:197–210.

[54] Pookandy J. AI-based data cleaning and management in Salesforce CRM for improving data integrity and accuracy to enhance customer insights. Int J Adv Res Eng Technol. 2022;13:108–16.

[55] Prasetyo A, Lestari R, Hartono R. Using natural language processing to enhance customer sentiment analysis in e-commerce. Int J Inf Eng Sci. 2024;1(2):19–25. https://doi.org/10.62951/ijies.v1i2.90

[56] Quartey P, Turkson E, Abor JY, et al. Financing the growth of SMEs in Africa: What are the constraints to SME financing within ECOWAS? Rev Dev Finance. 2017;7(1):18–28. https://doi.org/10.1016/j.rdf.2017.03.001

[57] Rafalski M. AI and CRM: Redefining customer relationship management. 2024. Available from: https://www.netguru.com/blog/ai-and-crm

[58] Raji MA, Olodo HB, Oke TT, et al. The digital transformation of SMEs: A comparative review between the USA and Africa. Int J Manag Entrep Res. 2024;6:737–51. https://doi.org/10.51594/ijmer.v6i3.884

[59] Rane N, Achari A, Choudhary S. Enhancing customer loyalty through quality of service: Effective strategies to improve customer satisfaction, experience, relationship, and engagement. Int Res J Mod Eng Technol Sci. 2023;5:427–52. https://doi.org/10.56726/IRJMETS38104

[60] Ravichandran S. What is the purpose of the HubSpot CRM? Wishup Blog. 2024. Available from: https://www.wishup.co/blog/what-is-hubspot-crm

[61] Reitsamer BF, Becker L. Customer journey partitioning: A customer-centric conceptualization beyond stages and touchpoints. J Bus Res. 2024;181. https://doi.org/10.1016/j.jbusres.2024.114745

[62] Saco M, Galiano A, Rodríguez V. Learning from the sales conversion rate throughout its product life cycle analysis: A case study for the Spanish automotive sector. E+M Ekonomie a Management. 2020;23:184–98. https://doi.org/10.15240/tul/001/2020-1-013

[63] Samira W, Osundare, Ekpobimi H, Kandekere P. Development of an integrated model for SME marketing and CRM optimization. Int J Manag Entrep Res. 2024;6:3209–42. https://doi.org/10.51594/ijmer.v6i10.1612

[64] Sathyamoorthy G, Pattabiraman R. AI-driven customer relations management (CRM). Int J Bus Manag Invention. 2024;13:132–9. Available from: https://www.ijbmi.org/papers/Vol(13)5/1305132139.pdf

[65] Sharabati AA, Ali AA, Allahham MI, Hussein AA, Alheet AF, Mohammad AS. The impact of digital marketing on the performance of SMEs: An analytical study in light of modern digital transformations. Sustainability. 2024;16(19):8667. https://doi.org/10.3390/su16198667

[66] Signe L. Africa's consumer market potential: Trends, drivers, opportunities and strategies. Africa Growth Initiative. 2018. Available from: https://www.brookings.edu/wp-content/uploads/2018/12/Africas-consumer-market-potential.pdf

[67] Taherdoost H. Customer relationship management. In: E-Business Essentials. Springer, Cham; 2023. https://doi.org/10.1007/978-3-031-39626-7_10

[68] This Day. Jumia transforms customer experience with AI-powered platform. 2024. Available from: https://www.thisdaylive.com/index.php/2024/07/04/jumia-transforms-customer-experience-with-ai-powered-platform

[69] Tshibangu GM. SMEs and barriers to effective leadership in Africa. Africa International University. 2019. Available from: https://journals.aiu.ac.ke/index.php/impact/article/download/52/53/186

[70] Uwagaba J. Exploring the barriers to artificial intelligence adoption in sub-Saharan Africa's small and medium enterprises and the potential for increased productivity. 2023;1:15.

[71] Uzoka A, Ojukwu P. Leveraging AI-powered chatbots to enhance customer service efficiency and future opportunities in automated support. Comput Sci IT Res J. 2024;5:2485–510. https://doi.org/10.51594/csitrj.v5i10.1676

[72] Van Scheers L. Internet web marketing challenges of South African SMEs. CECONOMICA. 2017;4(3):33–48. Available from: https://journals.univ-danubius.ro/index.php/oeconomica/article/viewFile/4472/4464

[73] Wilson G, Johnson O, Brown W. The impact of artificial intelligence on customer relationship management. Preprints. 2024. https://doi.org/10.20944/preprints202408.0766.v1

[74] Zoho. AI-powered data analytics with Zia. 2024. Available from: https://www.zoho.com/analytics/zia/