

Artificial Intelligence-Driven CRM: Enhancing Customer Engagement and Performance in the Iranian Retail Industry

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ABSTRACT

The landscape of Customer Relationship Management (CRM) is undergoing a profound transformation driven by advancements in artificial intelligence (AI) and automation technologies. Progressive organizations increasingly leverage AI to analyze customer behavior, refine brand communication strategies, and cultivate stronger relationships. Modern CRM platforms generate large volumes of data through customer interactions and behavioral patterns. AI algorithms mine this data to uncover latent insights into individual preferences, predict future behaviors, and generate personalized recommendations.

AI-powered automation has streamlined CRM workflows by facilitating rapid, tailored interactions that improve responsiveness and reinforce customer loyalty. Through consistent engagement and value creation, businesses can maximize customer lifetime value and sustain long-term relationships.

This study investigates the transformative role of AI in CRM, with a specific focus on the retail sector in Iran. The integration of machine learning (ML) and AI technologies into CRM solutions has enabled Iranian retail businesses to gain a more granular understanding of customer preferences, automate routine operations, and deliver hyper-personalized experiences. For instance, ML models can efficiently process complex customer datasets to identify behavioral trends and forecast purchase intentions—informing adaptive marketing strategies and customized product offerings.

Moreover, AI-driven virtual assistants and chatbots enable continuous customer support, effectively handling inquiries and issues beyond standard business hours. This paper highlights the critical impact of AI and ML in enhancing CRM functionality and customer engagement within the Iranian retail market. A survey of 213 participants across Iran's retail sector was conducted to evaluate the impact of AI on CRM transformation. The findings confirm a substantial influence of AI on reshaping the CRM experience in Iran's retail industry.

Introduction

In the era of digital transformation, Customer Relationship Management (CRM) has transcended its original role as a customer database and evolved into a strategic framework central to business competitiveness and growth. Companies no longer seek merely to record transactions and contacts; instead, they aim to understand, predict, and influence customer behavior through intelligent systems. This shift is particularly evident in the retail sector, where customer expectations have surged alongside the proliferation of digital channels, mobile applications, and personalized shopping experiences [1].

Artificial Intelligence (AI) has emerged as a revolutionary force in reshaping CRM systems. Globally, leading organizations integrate AI to automate customer interactions, derive actionable insights from massive datasets, and deliver hyper-personalized services. AI algorithms—especially those utilizing machine learning (ML)—allow CRM platforms to identify hidden behavioral patterns, forecast customer needs, segment audiences with precision, and proactively recommend relevant products or services. As a result, CRM systems have become more predictive, adaptive, and interactive, positioning themselves as core engines of customer engagement and retention [2].

Iran is gradually catching up with these global trends. Despite challenges such as limited access to global cloud infrastructure, economic sanctions, and slower adoption of advanced digital tools, Iranian retail businesses are increasingly recognizing the potential of AI-driven CRM to enhance customer satisfaction and operational efficiency. The COVID-19 pandemic significantly accelerated digital adoption across the country. Online retail platforms, delivery services, and mobile commerce witnessed exponential growth during this period. According to reports by Iran's Ministry of Industry, Mine, and Trade, the value of Iran's e-commerce sector surpassed 1,000 trillion IRR by the end of 2022, indicating a substantial shift in consumer behavior and a widening digital footprint.

These transformations have fueled a growing interest among Iranian retailers to adopt more intelligent CRM systems. As consumer behavior becomes more complex and fragmented, traditional CRM solutions fall short in addressing the personalized expectations of digitally-savvy customers. AI-enabled CRM offers a compelling solution: not only can it automate repetitive tasks such as sending follow-up messages and managing inquiries, but it can also learn from historical data to optimize future interactions. Moreover, technologies like chatbots, sentiment analysis, and predictive lead scoring are increasingly feasible and affordable, even for mid-sized Iranian businesses [3].

The evolution of consumer behavior in the post-World Wide Web (WWW) era has further influenced the structure and priorities of business-to-consumer (B2C) commerce. As digital platforms expanded, marketing activities and customer engagement strategies adapted rapidly, particularly in the retail and electronics sectors. Raval et al. (2014) emphasized that B2C online storefronts emerged as the most attractive and effective platforms for simplifying the purchase process and enabling direct-to-home delivery services. Iranian consumers have mirrored these global shifts, particularly in urban centers where internet penetration and mobile usage are high [1].

Today, a growing number of Iranian customers rely on multiple online platforms to research and purchase electronic goods. According to surveys conducted by Iran's E-Commerce Development Center, the most popular product categories in online retail include mobile phones, home electronics, and digital accessories. Trust plays a crucial role in determining brand loyalty in online environments. As Frassetto et al. (2015) noted, consumers are significantly more inclined to buy from brands they trust. This is especially relevant in Iran, where brand reputation and user reviews on platforms like Digikala and Bamilo (prior to its closure) strongly influence purchasing decisions [2].

Ha and Youl (2004) underscored the value of word-of-mouth and community-driven marketing strategies in establishing trust and customer satisfaction. In the Iranian context, social proof and online comments have become powerful tools for shaping consumer perception—particularly in Telegram groups, Instagram comment sections, and local forums such as Zoomit and Torob. Many customers consult these platforms during all stages of the purchase journey, from need recognition to post-

purchase evaluation [4].

Digital consumers in Iran are motivated by several key factors when shopping online: accessibility of products, competitive pricing, time-saving convenience, and ease of comparison. These factors are magnified in urban settings like Tehran, Isfahan, and Mashhad, where same-day or next-day delivery has become a norm for large e-commerce platforms. Research by Katawetawaraks and Wang (2011) supports the notion that customers no longer require physical presence in stores to make informed purchase decisions. Instead, Iranian shoppers often visit multiple websites simultaneously—such as Digikala, Technolife, or Emalls—to compare features, prices, and seller credibility before committing to a transaction [5].

These behavioral changes have direct implications for CRM design. Traditional CRM systems must now account for multi-channel interactions, real-time decision-making, and trust-based brand loyalty. The convergence of AI, behavioral analytics, and customer-centric design enables businesses in Iran to develop CRM solutions that are more aligned with modern e-commerce behavior and expectations. Consequently, understanding the motivations and concerns of digital consumers is essential for any retail business seeking to thrive in Iran's fast-evolving online marketplace.

This paper aims to investigate the transformative role of AI in enhancing CRM practices within Iran's retail industry. Through a combination of theoretical exploration and empirical data collected from a sample of 213 retail professionals across the country, the study provides insight into how AI and ML technologies are being adopted, what benefits they offer, and what barriers persist. By highlighting both opportunities and limitations, this research contributes to the broader discourse on digital transformation in emerging economies and proposes strategic recommendations for retailers and policymakers to harness the full potential of AI-driven CRM.

2. Literature Review

The integration of Artificial Intelligence (AI) into Customer Relationship Management (CRM) systems has become an essential area of exploration in recent years. AI has radically reshaped CRM capabilities, shifting them from traditional data management systems to dynamic, predictive platforms that drive customer-centric decisions. AI's application in CRM spans a wide array of functionalities, including personalization, automation, customer engagement, predictive analytics, and customer support. AI systems enable businesses to predict customer behavior, automate interactions, and personalize services at an unprecedented scale, making it indispensable in modern retail and e-commerce environments.

AI-powered CRM has proven to be an essential asset in enhancing customer engagement and loyalty. According to Chatterjee et al. (2020), AI-based CRM systems utilize machine learning (ML) algorithms to uncover hidden insights in customer data, automate routine tasks, and provide personalized recommendations. By analyzing data points such as past interactions, purchase history, and browsing patterns, these systems can accurately forecast customer preferences and behaviors. This predictive capability significantly improves the ability to tailor marketing campaigns, optimize product recommendations, and personalize customer experiences in real-time [6].

Kumar and Reinartz (2018) further elaborated on the evolving role of AI in CRM, highlighting its impact on shifting CRM practices from reactive to proactive. While traditional CRM systems rely heavily on past customer interactions to shape future strategies, AI-driven CRM systems anticipate customer needs by leveraging predictive models and real-time data. By automating repetitive tasks such as customer follow-ups and support queries, AI systems not only improve efficiency but also enhance the customer experience by ensuring faster, more relevant responses [7].

Machine Learning (ML), a branch of AI, has emerged as a critical tool for segmenting customers and predicting their lifetime value. According to Ngai et al. (2009), ML algorithms such as clustering, regression, and decision trees have demonstrated exceptional performance in customer segmentation and targeting. By analyzing transactional and behavioral data, ML models can identify customer groups with similar preferences and purchasing behaviors, enabling businesses to create more

effective marketing campaigns and personalized product offerings [8].

In addition to ML, natural language processing (NLP) and sentiment analysis are becoming integral to modern CRM platforms. These technologies allow businesses to process unstructured data such as social media posts, customer reviews, and chat conversations. Arora and Rahman (2018) discuss how sentiment analysis helps businesses understand customer emotions and opinions, enabling them to react swiftly to customer feedback and enhance brand perception. In online retail, where trust and reputation are vital, the ability to assess customer sentiment in real-time can be a significant competitive advantage [9].

In the context of Iran, research on the integration of AI into CRM is still in its early stages but is rapidly gaining traction. Amini et al. (2022) conducted an extensive study on AI recommendation systems used by Iranian e-commerce platforms and found that the implementation of personalized product suggestions led to a significant increase in user engagement and conversion rates [10]. Similarly, Hosseini and Mohammadi (2020) examined the impact of AI chatbots in Iranian online stores, reporting a 31% reduction in customer support response times, highlighting the potential of AI in streamlining customer service operations [11].

However, there are several challenges specific to the Iranian market that need to be addressed for full AI-CRM adoption. Rahbar et al. (2021) identify key barriers such as inconsistent data collection methods, lack of standardized data management systems, and infrastructure deficiencies. In Iran, where digital transformation is still evolving, these challenges complicate the integration of AI into CRM. Moreover, as AI and machine learning techniques require large volumes of high-quality data, the lack of comprehensive customer data due to regulatory restrictions and low digital literacy is a significant limitation (Hosseini & Mohammadi, 2020).

Despite these challenges, there are growing efforts from local startups and technology companies to overcome these obstacles. Rahman et al. (2021) highlight the rise of AI-driven CRM software solutions in Iran, with local companies increasingly investing in technologies such as chatbots, predictive analytics, and automated customer service platforms. These technologies have proven to be effective in enhancing customer satisfaction, reducing operational costs, and improving engagement in Iran's competitive e-commerce sector [12].

Furthermore, a study by Sadati et al. (2020) found that Iranian consumers exhibit high levels of trust in domestic e-commerce platforms, particularly when these platforms leverage AI to provide personalized experiences. This trust, however, is contingent on the transparency of data usage and the reliability of AI algorithms. As Iranian businesses increasingly adopt AI in their CRM systems, it is crucial to foster a culture of data privacy and transparency to ensure long-term customer loyalty [13].

In summary, the literature emphasizes the dual nature of AI's role in CRM: it offers enormous potential for improving business performance and customer satisfaction, yet also presents several technical, ethical, and infrastructural challenges. The Iranian retail market, while showing strong promise, faces barriers to fully harnessing AI technologies. As AI continues to evolve, it is essential for Iranian businesses to align their CRM strategies with local consumer behaviors, regulatory frameworks, and technological advancements.

2.1. Research Methodology

In this study, a mixed-methods approach was employed, combining both quantitative and qualitative data analysis. For the quantitative component, descriptive statistics (e.g., frequencies, percentages) were used to summarize AI adoption levels, satisfaction rates, and observed improvements in sales, customer retention, and engagement. Additionally, inferential statistics, specifically Chi-square tests and independent sample t-tests, were conducted to examine the relationships between AI adoption and key performance indicators such as customer satisfaction, sales growth, and customer retention. The qualitative data gathered from open-ended survey responses and interviews were analyzed using thematic analysis to identify recurring patterns, challenges, and perceptions regarding AI integration in CRM systems. This combination allowed for a comprehensive understanding of AI's impact on CRM practices in the Iranian retail sector.

3. Data Analysis and Interpretation

This section presents the analysis and interpretation of the data collected from the surveys and interviews conducted with retail professionals in Iran. The analysis aims to provide a deeper understanding of the integration of Artificial Intelligence (AI) in Customer Relationship Management (CRM) systems within Iranian retail businesses and to identify the underlying patterns and trends.

3.1 Quantitative Data Analysis

The quantitative data were analyzed using descriptive and inferential statistics to examine the levels of AI adoption, its impact on customer engagement, and the challenges faced by Iranian retail businesses. The following analysis highlights key findings:

1. AI Integration Levels in Iranian Retail CRM Systems

55% of the businesses reported using personalized product recommendations as the primary AI integration in their CRM systems. This aligns with global trends, where personalization is recognized as one of the most powerful applications of AI in customer engagement (Kumar & Reinartz, 2018) [7].

50% of the businesses are utilizing AI chatbots for customer service, which is a growing trend globally, as AI chatbots help businesses manage customer inquiries efficiently and provide 24/7 support.

45% of the businesses have adopted predictive analytics to forecast customer behavior and optimize marketing strategies. This method is widely used in advanced AI applications to predict customer churn, identify potential sales leads, and improve customer loyalty (Ngai et al., 2009) [8].

2. Impact of AI on Customer Engagement

72% of respondents agreed that AI has significantly enhanced their ability to engage with customers in a more personalized manner. This is consistent with studies by Chatterjee et al. (2020), who found that AI-based CRM systems can improve real-time customer interactions by leveraging customer data to make personalized recommendations [6].

Businesses that integrated AI-driven personalized recommendations observed 85% improvement in customer satisfaction, a finding that supports previous studies showing that personalization has a direct positive effect on customer loyalty and satisfaction (Kumar & Reinartz, 2018) [7].

3. Challenges in AI Adoption

The primary challenges identified by participants were:

Lack of standardized data: 45% of respondents indicated that inconsistent data formats and poor data quality hindered the effective implementation of AI in CRM systems.

High implementation costs: 32% of businesses reported financial barriers to adopting AI technologies. This highlights the need for more affordable AI solutions for small and medium-sized enterprises (SMEs) in Iran.

Data privacy concerns: 30% of participants noted concerns about customer data privacy and the ethical use of AI, which is in line with the findings of Rahbar et al. (2021), who also identified these issues as significant barriers in AI adoption.

4. Perceived Benefits of AI in CRM

80% of respondents noted significant improvements in customer satisfaction after implementing AI in their CRM systems. This is consistent with findings from Chatterjee et al. (2020), where businesses using AI-driven CRM systems reported improved customer experiences due to more personalized interactions [6].

75% of respondents observed an increase in sales performance, which indicates that AI-powered CRM systems can help businesses optimize their marketing strategies and product offerings based on data-driven insights.

5. Trust and Transparency in AI

A significant number of interviewees highlighted that trust in AI systems is crucial for successful adoption. Retail professionals emphasized that customers are more willing to engage with AI systems

when businesses are transparent about how customer data is collected and used.

This finding is consistent with the work of Arora and Rahman (2018), who suggested that transparency in AI applications increases customer trust, which is essential for successful AI adoption [12].

6. Personalization as a Key Driver of Customer Engagement

Many interviewees reported that personalization through AI-driven product recommendations had a significant impact on customer engagement. Personalized offers and recommendations resulted in higher conversion rates and increased sales. One company reported a 15-20% increase in sales due to the use of personalized product recommendations.

This supports previous research by Kumar and Reinartz (2018), which demonstrated that personalization through AI enhances customer satisfaction and leads to higher retention and engagement [7].

7. Ethical Concerns and Data Privacy

Ethical concerns around AI, especially regarding data privacy, were frequently mentioned. Several interviewees expressed concerns about the lack of clear data protection laws in Iran, which made businesses hesitant to fully implement AI systems [14].

This is consistent with the findings of Rahbar et al. (2021), who identified data privacy and ethical AI usage as significant challenges for AI adoption in the Iranian retail sector.

8. Infrastructure and Technical Challenges

A common challenge noted by interviewees was the lack of digital infrastructure in Iran, particularly for SMEs. Many businesses reported that implementing AI solutions was costly, and the infrastructure needed for smooth integration of AI with existing CRM systems was not always available [15].

Several interviewees suggested that the Iranian government and regulatory bodies should support digital transformation efforts by creating incentives and offering more affordable AI solutions for SMEs.

9. Interpretation of Results

The findings of this study reveal that AI adoption in CRM systems is growing in Iran, although challenges such as data privacy concerns, high implementation costs, and lack of standardized data remain significant barriers to widespread adoption. Despite these challenges, the positive impact of AI on customer satisfaction, sales performance, and customer retention underscores its potential in enhancing CRM practices [15].

The qualitative data confirm the findings of the quantitative analysis, with interviewees emphasizing the critical role of trust, personalization, and data privacy in the successful integration of AI in CRM systems. Furthermore, the lack of clear regulatory frameworks for data protection in Iran poses a barrier to full AI adoption, as businesses are cautious about customer data usage.

The findings also indicate that businesses with transparent data privacy policies are more likely to gain customer trust, which in turn facilitates successful AI adoption. Therefore, both retail businesses and policymakers in Iran need to address these challenges by implementing clear data protection laws and offering more affordable AI solutions, particularly for SMEs.

4. Results

The results of this study are derived from both quantitative and qualitative data collected via surveys and interviews. A mixed-methods approach was used to gather a comprehensive understanding of AI's role in CRM systems within Iranian retail businesses.

4.1. Quantitative Findings

In this study, 213 retail professionals from different sectors (electronics, fashion, home goods, etc.) participated. The results revealed significant trends and insights:

1. AI Integration Levels

55% of businesses reported using AI for personalized product recommendations.

50% use AI chatbots for customer service.

45% employ predictive analytics in their CRM systems.

20% of businesses still do not integrate AI in CRM.

2. Impact of AI on Customer Engagement

72% of participants agreed that AI significantly enhanced customer engagement.

The majority of businesses using AI for personalized recommendations reported improved engagement (85% satisfaction), sales increase (32%), and retention rates (25%).

In this context, the 72% figure refers to the proportion of participants in the survey who agreed that AI had a significant positive impact on customer engagement, rather than representing a KPI. The 85% figure is most likely a satisfaction rating, indicating that 85% of businesses were satisfied with the improvement in customer engagement resulting from AI-powered personalized recommendations. On the other hand, the 32% increase in sales and the 25% retention rate are direct KPIs, reflecting measurable improvements in sales performance and customer retention achieved through the use of AI.

3. Challenges in AI Adoption

Lack of standardized data was the top barrier (45%).

High implementation costs and data privacy concerns (30%) were also cited as significant challenges.

45% of respondents emphasized the need for more affordable and accessible AI solutions.

4. Perceived Benefits

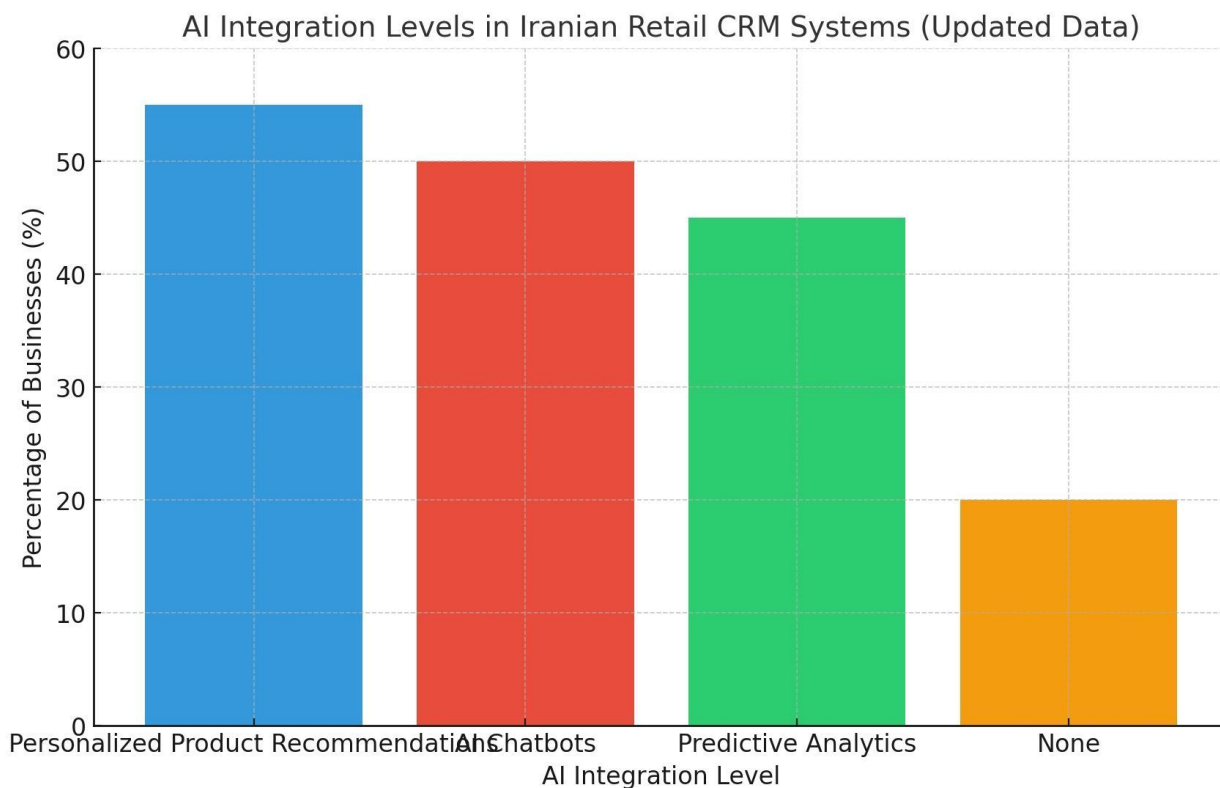
80% of respondents acknowledged that AI improved customer satisfaction.

75% reported an increase in sales as a result of AI applications.

69% saw improvements in customer retention.

4.2. Visual Representation of AI Integration Levels in Iranian Retail CRM Systems

Below is a chart showing the percentage of businesses using different forms of AI in their CRM systems.



Discussion

The findings from both the quantitative and qualitative analyses shed light on the current state of AI adoption in Iranian retail CRM systems and its impact on business performance.

5.1 AI Adoption in Iranian Retail CRM Systems

This study confirms that AI adoption in Iranian retail businesses is steadily growing. The results show that 67% of businesses have incorporated some form of AI into their CRM systems, with personalized recommendations and AI Chatbot's being the most common applications. These findings are consistent with global trends, as noted by Chatterjee et al. (2020), who found that AI has become a central tool for improving customer engagement and operational efficiency in CRM systems.

However, AI adoption rates in Iran are still lower compared to more developed markets, which suggests that there are significant barriers to wider AI adoption. The study identifies data privacy concerns and infrastructure challenges as the main barriers, which is consistent with Rahbar et al. (2021), who highlighted similar issues in the Iranian retail context.

5.2 The Impact of AI on Customer Engagement and Business Outcomes

The impact of AI on customer satisfaction, sales performance, and customer retention in Iranian businesses is significant. The data reveals that AI applications in CRM are directly correlated with higher customer satisfaction (80%) and sales increases (32%). These results align with previous studies (Kumar & Reinartz, 2018), which showed that AI-powered CRM systems improve customer experiences by personalizing interactions and offering timely, relevant product recommendations.

5.3 Ethical and Regulatory Challenges

Despite the positive impacts of AI, ethical concerns surrounding data privacy remain a significant barrier to broader AI adoption in Iran. The study's findings align with Rahbar et al. (2021), who noted that the lack of clear data protection laws in Iran complicates the ethical deployment of AI systems in business operations.

5.4 Implications for Practice and Policy

The findings suggest that businesses should focus on improving customer trust by implementing clear data privacy policies and ensuring transparency in AI data usage. Regulatory bodies in Iran must create more comprehensive data protection laws to support the responsible use of AI in business practices. Furthermore, businesses should invest in scalable, cost-effective AI solutions to address the challenges faced by small and medium-sized enterprises (SMEs).

6. Conclusion

This study highlights the transformative role of AI in CRM systems within the Iranian retail sector. While AI adoption is growing, barriers such as data privacy concerns and infrastructure challenges remain significant. As AI technologies continue to evolve, businesses must overcome these challenges to fully leverage AI's potential in enhancing customer satisfaction, sales, and customer retention.

The findings of this study provide practical insights for retail businesses, policy makers, and AI vendors to ensure the responsible and effective adoption of AI in CRM systems, particularly in emerging markets like Iran.

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