The Role of Artificial Intelligence in Market Competition

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Abstract. The subject of the research is about the role of artificial intelligence in the market. With the rapid advancement of social technology, artificial intelligence is playing an increasingly significant role in the market. As a research topic within the field of business administration, artificial intelligence has profoundly transformed the business landscape. Both individual consumers and enterprises now heavily rely on the convenience brought about by artificial intelligence. From personalized recommendation systems to intelligent ad targeting, AI accurately meets consumer demands by analyzing vast datasets, thereby enhancing market efficiency. Moreover, artificial intelligence is making a significant impact in the realm of employee training. Machine learning-based training methods can personalize adjustments based on employees' learning progress and performance, thereby improving training effectiveness. Even in traditional fields such as driver training, virtual reality technology has been integrated to make learning more efficient and safer. All of these developments herald the trends in future market evolution, where artificial intelligence will become a key element for business success. As technology continues to progress, artificial intelligence will gradually evolve into an indispensable life necessity. It not only brings innovation and efficiency to the market but also offers individuals a more convenient and personalized way of living. Therefore, scholars and practitioners in the field of business administration have a responsibility to delve into the role of artificial intelligence in the market, in order to better grasp the opportunities and challenges in future business development.

Keywords: Artificial Intelligence, Market Competition, future development.

1. Introduction

The role of artificial intelligence in marketing and sales includes data analysis and forecasting, personalized marketing and competitive intelligence, customer experience and improving employee training efficiency. From these aspects, we can see the key role of artificial intelligence in market competition [1].

First, for companies or businesses, artificial intelligence can analyze large-scale market data, including consumer behavior, market trends and competitor activities. Predict market demands and trends in advance, helping marketing teams make more accurate decisions. Competitor data and behavior can be collected and analyzed through artificial intelligence to provide critical competitive intelligence and market insights [2,3]. This allows businesses to better understand competitors' strategies and actions and adjust and optimize accordingly [4]. AI can also help optimize advertising and promotions, increasing the accuracy and effectiveness of advertising. By analyzing big data and user behavior, artificial intelligence can adjust advertising strategies and targeted advertising in real time [5].

For consumers, artificial intelligence can provide personalized recommendations and customized marketing strategies based on consumers' personal preferences and behavior patterns. Increase customer satisfaction and loyalty, leading to increased sales and market share.

From the perspective of employees, artificial intelligence can quickly train employees. For example, use VR to immerse employees in training and quickly learn about technology [6]. AI can automate many marketing and sales processes, reducing manual steps and increasing productivity. For example, automated customer service bots can handle common issues and relieve the burden on human agents [7].

Overall, AI is playing an important role in marketing and sales. The application of the above aspects can help enterprises gain competitive advantage and achieve commercial success.
2. Case description

Lululemon is a high-end sports brand in Canada. Before the epidemic, lululemon acquired mirrors and developed fitness mirrors. This move is lululemon's application of digital technology. Realized home fitness, more than 10000 courses on the mirror. Mirror not only has fitness courses, but also provides fitness suggestions based on customers' fitness data. In addition, customers can also socialize through the Mirror platform [8]. The lululemon studio mirror can be used for fitness and social interaction, which will bring great benefits to customers and promote products in this way, so artificial intelligence can indeed help an enterprise play a leading role in this industry.

On the other hand, lululemon's product innovation and sustainability improve performance and comfort by introducing new fabrics. For example, it can be waterproof, light and thin, and more comfortable to wear. Lululemon is cooperating with innovators in the field of environmentally friendly materials, which is also a kind of marketing. The use of technological materials not only protects the environment, but also improves customers' preference for the comfort of clothing materials.

Lululemon dares to innovate and flexibly uses artificial intelligence marketing methods to maintain its position in the industry.

3. Analysis on the problem

Lululemon Company clothing is not only about utility, comfort and style, but also global. By 2022, the number of directly operated stores worldwide will reach 655. lululemon takes a decentralized strategic approach to stores and operations across markets and understands local consumer preferences. Lululemon is a very fashionable sports brand, which can be worn not only during sports, but also for daily work and school. Overall, Lululemon is a very comprehensive sports brand. Therefore, facing many competitors, such as Adidas, Nike, Puma, etc., these sports brands have gained certain popularity and market share in the local market. Nike is a very formidable competitor. Although Lululemon and Nike are two different types of companies, they are both sports brands. Lululemon primarily offers high-end activewear and yoga gear, while Nike covers a wide range of activewear and footwear. Data surveys show that Lululemon is superior to Nike in a number of key indicators. First, over the past decade, Lululemon's sales have grown nearly 20% annually, significantly higher than Nike's average annual revenue growth rate of 8.7% over the same period. Over the past five years, Lululemon's average EPS growth rate has been 27.1% per year, compared to Nike's 15% annual growth rate [9]. Lululemon has strong competitors, so using artificial intelligence to solve this problem requires constant observation of customers' preferences.

Lululemon is a high-end fashion yoga retailer that has built a loyal following for its sleek, performance-focused activewear. For high-end yoga brands, the quality and price of lululemon has always been a controversial topic [10].

Lululemon's commitment to providing high-quality, performance-oriented activewear is the hallmark of its success. The use of premium materials such as Luon, known for their moisture-wicking and flexible properties, contribute to the exceptional performance of the yoga pants. Despite having a loyal following, Lululemon has faced controversies such as a Luon fabric recall and complaints about product quality from customers who complained that the pants were too sheer, and the fabric was too thin to snag and pill. High price tags heighten customer expectations, make any quality lapses more obvious, and have an impact on brand perception. Such incidents have led some customers to question the value proposition of Lululemon's products. The high-end yoga wear market is becoming increasingly competitive with new entrants offering alternative options at different price points. As competitors emerge, Lululemon faces the challenge of justifying its premium and standing out in a crowded market.

Lululemon's controversial pricing strategy for its yoga pants is a complex combination of factors, including quality, brand, innovation, sustainability and customer expectations. While premium prices have underpinned the brand's positioning as a high-end fashion yoga retailer, it has faced challenges
with product quality and customer satisfaction. Striking a balance between premium and customer value is critical to Lululemon's long-term success. As the market continues to evolve, understanding customer preferences and continuously responding to their needs is critical to maintaining a brand's leading position in the highly competitive sportswear space.

4. Suggestion

In today's technology-driven world, businesses are increasingly turning to artificial intelligence (AI) to gain a competitive advantage and better understand customer preferences. Lululemon, a well-known sportswear company, could use the power of artificial intelligence to improve customer experience, optimize supply chain operations, and drive business growth. This article explores how artificial intelligence is providing Lululemon with valuable advice, revolutionizing every aspect of its business, and staying ahead in an evolving market. Based on this I give three suggestions.

4.1. Personalized Customer Recommendations

One of the most impactful ways artificial intelligences is providing recommendations for Lululemon is through personalized customer recommendations. By leveraging an AI-powered recommendation system, the company analyzes customer data, purchase history and online behavior to provide individual shoppers with tailored product recommendations. This approach not only increases customer satisfaction, but also increases the likelihood of repeat purchases and fosters brand loyalty. As online shopping continues to grow, an artificial intelligence-powered virtual fitting room could offer Lululemon customers an immersive and interactive shopping experience. Using augmented reality (AR) and computer vision, customers can virtually try on different garments before purchasing. This not only increases customer satisfaction, but also reduces the number of product returns.

4.2. Demand forecasting and inventory management

AI-driven demand forecasting could transform Lululemon’s inventory management. By analyzing historical sales data, market trends, and external factors, AI algorithms can accurately predict demand for different products. This allows Lululemon to optimize its inventory levels, reduce stock-outs and minimize excess inventory, ultimately saving costs and improving customer satisfaction.

4.3. Customer service with artificial intelligence.

Timely and efficient customer service is crucial to retaining customers. AI-powered chatbots and virtual assistants can provide instant support, answer customer inquiries and handle routine tasks, freeing human representatives to focus on more complex issues. AI-driven customer service ensures 24/7 availability and enhances customer experience.

5. Conclusion

The rapid transformation of the business landscape by artificial intelligence is undeniable, and Lululemon, a prominent player in the retail sector, stands to reap substantial benefits from embracing AI technologies. With the integration of artificial intelligence, Lululemon can unlock a realm of possibilities that extend beyond conventional business strategies. By harnessing the power of AI, Lululemon can enhance its customer experience, streamline operations, and maintain its competitive edge in the market.

One of the most significant advantages that artificial intelligence brings to Lululemon is the ability to deliver personalized customer recommendations. Through sophisticated algorithms and data analysis, AI can discern individual customer preferences, browsing history, and purchase patterns. This wealth of information allows Lululemon to curate tailored product suggestions for each customer,
effectively enhancing their shopping experience. This personalized touch not only deepens customer engagement but also bolsters brand loyalty.

Furthermore, AI-driven demand forecasting is a game-changer for Lululemon's supply chain management. Traditional forecasting methods often fall short in predicting market trends accurately. However, AI algorithms can analyze vast amounts of data, encompassing factors like seasonality, consumer behavior, and external influences, to generate remarkably accurate demand forecasts. This translates to optimized inventory management, minimizing the risk of overstocking or understocking products. By ensuring the right products are available at the right time, Lululemon can capture sales opportunities and avoid missed revenue potential.

In the realm of customer service, AI offers a round-the-clock solution that goes beyond human limitations. Lululemon can implement AI-powered chatbots or virtual assistants to promptly address customer inquiries, provide real-time assistance, and offer personalized recommendations. This not only enhances customer satisfaction but also frees up human resources for more complex tasks that require emotional intelligence and critical thinking.

Moreover, as customer satisfaction remains paramount for any brand's success, Lululemon can leverage AI to analyze customer feedback, reviews, and social media interactions. Sentiment analysis algorithms can gauge customer sentiments towards the brand, products, and services, enabling Lululemon to proactively address issues and capitalize on positive feedback. This continuous feedback loop strengthens the brand's relationship with its customers and aids in refining products and services based on real-time insights.

In a fiercely competitive market, where staying ahead of trends and customer preferences is vital, AI offers Lululemon a distinct edge. By incorporating machine learning algorithms, the company can analyze consumer behavior and preferences to predict future trends accurately. This foresight empowers Lululemon to proactively design and introduce products that resonate with customers, positioning the brand as an industry trendsetter.

As Lululemon embarks on this AI-powered journey, it’s important to acknowledge that successful implementation requires a strategic approach. Collaboration between data scientists, IT professionals, and domain experts is essential to ensure that AI technologies align with the brand's vision and objectives. Additionally, data privacy and ethical considerations must be at the forefront of these initiatives, safeguarding customer information and building trust.

In conclusion, the adoption of artificial intelligence has the potential to revolutionize Lululemon's business operations. From personalized customer recommendations to demand forecasting and round-the-clock customer service, AI can elevate the brand's market position and maintain its competitive prowess. As Lululemon harnesses the capabilities of AI, it not only enhances its business performance but also reaffirms its commitment to delivering exceptional customer experiences in an evolving digital landscape.

References


