

A Study On The Role Of Artificial Intelligence On Buying Behaviour Of Consumers In India

Prof. (Dr.) Sachin Sharma^{1*}, Dr. Kavita Sharma², (Dr.) Kuldeep Agnihotri³, Mrs. Anshu Mishra⁴

¹ Professor, Institute of Management Studies, Devi Ahilya Vishwavidyalaya, Indore (MP)

² Faculty, Institute of Management Studies, Devi Ahilya Vishwavidyalaya, Indore (MP)

³ Director/Principal, ISBA Group of Institutes, Indore (MP)

⁴ Research Scholar (Faculty of Commerce), Devi Ahilya Vishwavidyalaya, Indore (MP)

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ABSTRACT

This case study looks at the ways that artificial intelligence (AI) has improved marketers' ability to understand and analyze Consumer Behaviour. To make their marketing strategy and plans more effective, marketers are researching consumer Behaviour on the internet. AI may be the answer given the vast volume of data that is already accessible and the regularity of data breaches. An image recognition system might be able to identify and categorize things in photos by analyzing millions of examples. When a chatbot sees examples of text interactions, it can learn to have realistic discussions with humans.

Businesses now need to take advantage of the best AI talent to stay ahead of the competition. It can provide insight into every phase of the customer journey and aid marketers in comprehending the motivations underlying Consumer Behaviour. Stronger client relationships and a greater client lifetime value are possible consequences when done properly. AI may be used by marketing teams to interpret vast volumes of data in order to use the knowledge and pinpoint their target audience. Businesses can make use of it to develop user-centered sales funnels and build their marketing plans around them. In the end, more traffic is produced, which is advantageous for marketing departments trying to convert site visitors. Artificial intelligence (AI) and other technologies are transforming our understanding of and perspective on marketing.

Keywords: Artificial Intelligence, Buying Behaviour, Consumer, Market Trends

INTRODUCTION

Artificial intelligence is the ability of machines, especially computer systems, to mimic human intellectual functions. Speech recognition, machine vision, natural language processing, expert systems, and speech synthesis are a few specific uses of AI. AI systems usually consume a large amount of labelled training data, which they then analyze for correlations and patterns before using these patterns to predict future states. Just as a chatbot can learn to have realistic discussions with people after seeing samples of text talks, an image recognition program can learn to detect and describe items in images by examining millions of instances.

Consumer Buying Behaviour is the study of customers' decisions about which goods to purchase to fulfil their desires. It is an investigation into consumer behavior and the factors that influence individuals to purchase and use specific goods. Understanding consumer purchasing Behaviour is crucial for marketers because it allows them to better understand what customers expect from them. recognizing the factors that influence a consumer's decision on a product's usefulness. Finding out what kind of things consumers desire is essential before introducing a product to the market. Marketers can understand what consumers like and dislike, allowing them to adjust their marketing efforts accordingly. The purchasing Behaviour of consumers looks at a range of circumstances, such as what the buyer purchases, why they acquire it, when they purchase it, how frequently they purchase it, and many other factors.

These days, most businesses employ AI technology to improve the customer experience overall by boosting revenues, increasing productivity, lowering operating costs, and forecasting customer Behaviour. As AI technology develops, businesses must now appoint the greatest AI employees to remain ahead of the competition. AI can help businesses create enduring customer relationships. Using AI technologies, such as Customer Relationship Management (CRM) software, an organization can improve the overall customer experience and communicate with customers.

AI can also help with Customer Behaviour analysis. With AI, marketers can examine how consumers engage with their brands. It can help marketers understand what drives consumer Behaviour and offer insight into every phase of the customer experience. When carried out correctly, it can lead to positive outcomes such as increased customer retention, improved customer connections, and client lifetime value. AI assists companies in tracking and updating the content on their websites and social media accounts. It aids in developing a content marketing plan that will fascinate and draw in both present and potential customers. In content marketing, personalization is essential, and artificial intelligence plays a significant role in how well marketing teams understand their target audience.

ARTIFICIAL INTELLIGENCE

The goal of artificial intelligence (AI), a broad field of computer science, is to create intelligent machines that can carry out tasks that normally call for human intelligence. Even though artificial intelligence (AI) is an interdisciplinary discipline with many different techniques, developments in machine learning and deep learning in particular are revolutionizing almost every area of the IT sector. Machines with artificial intelligence can mimic or even surpass human mental capacities. As self-driving cars become more commonplace and generative AI tools like ChatGPT and Google's Bard proliferate, AI is becoming a more integral part of daily life and is a field that businesses in every sector are investing in.

ROLE OF ARTIFICIAL INTELLIGENCE ON BUYING BEHAVIOUR OF CONSUMER

Artificial intelligence (AI) has a significant impact on customer purchasing Behaviour and is changing the conventional retail environment. With the use of AI technologies, organizations can now obtain deep insights into customer preferences, allowing for more individualized and focused marketing strategies. Algorithms for making recommendations examine past actions and preferences to provide users with personalized recommendations that improve their online purchasing experience. Furthermore, AI-powered chatbots and virtual assistants offer on-demand support, assisting customers with decision-making and answering questions. In addition to streamlining the search and selection process, speech and picture recognition technologies have made it possible for customers to engage with products in novel ways before making a purchase.

AI also helps to optimize supply chains, pricing policies, and fraud detection, which promotes a safer and more effective online shopping experience. Businesses that use AI stand to not only satisfy but also anticipate customer wants as customers embrace these technological breakthroughs more and more. This will ultimately influence and shape consumers' purchasing Behaviour in the ever-changing world of modern commerce.

LITERATURE REVIEW

Laith T. Khrais (2020) investigated the key technological changes in e-commerce that aim to sway consumer Behaviour in favour of specific products and brands. The study discovers that, although AI systems have a significant role in e-commerce, their ethical viability remains a controversial topic, particularly when it comes to the idea of explain ability. The study also suggests that, to implement explainable XAI systems, ML models should be enhanced to make them more interpretable and understandable.

Significant progress has been achieved in the last few decades in some of the fundamental AI techniques, such as convolutional and neural networks, many of which have been made publicly available as open-source software. Since AI needs complex and intensive processing, organizations are finding it more and more attractive due to the falling cost of computer hardware and specialized AI chip designs. The proliferation of AI-related cloud-based services has also significantly increased accessibility for businesses that might have been wary. Furthermore, early research suggests that the introduction of COVID has also raised interest in AI as people grow accustomed to the decreased human component in many spheres of society, even if more research is needed in this area (**Coombs, 2020; Sipior, 2020**).

While AI is opening up additional potential in the marketing sector, there are drawbacks as well. Artificial intelligence is the reason why, when user open social media sites like Facebook or Instagram, user frequently find goods that they have discussed with someone, that we have seen somewhere and wished to buy, or that just happen to cross their minds. However, the question remains: did consumers supply the data, even though this indicates that AI techniques are being used to analyze the data? The main issue here is privacy; hence the answer is no. Customers' data is being utilized without their knowledge or approval, which could lead to issues down the road if they become aware of the privacy implications (**Newman, 2019**).

Large, tech-savvy companies have long used digital marketing tools and strategies to influence consumer Behaviour as they begin to investigate the potential applications of artificial intelligence (AI) and big data analytics to change their digital marketing strategies. In order to execute digital marketing strategies and meet underlying marketing goals and objectives, less time and money are spent overall when artificial intelligence (AI) is applied in digital marketing. There is a pattern to the application of AI tools in digital marketing that should be developed based on company goals and objectives (**Miklosik, 2019**).

According to **Juniper Research (2018)**, demand forecasting using AI in digital marketing will more than triple between 2019 and 2023, and chatbot interactions will rise from 2.6 billion to 22 billion in the same year. It is difficult to understand consumer purchasing Behaviour since it incorporates psychological concepts. Consumers express their needs, desires, and views in the digital age through a variety of channels, including the web, mobile devices, in-person interactions, comments, blogs, videos, and searches (**Court, et al., 2009**). For AI to advise stores on product displays and cataloguing, such insights are necessary (**Avinaash, 2018**). Marketers can leverage AI to better understand and connect with customers at various points in the customer journey (**Kietzmann, 2018**).

Erry Rimawan et.al. (2017). The study took into account the possibility of changes happening at any time in consumer culture, social psychological elements, and consumer Behaviour. The purpose of this study was to examine, evaluate, and gain a thorough understanding of the relationship between customer happiness and the PT ABC flexible packaging division's high-quality products, services, and trust.

Karolina Ileska (2013) a measure of the standard of economic output; a forecaster of consumer spending and business profits; a computation of the net present value of their clientele as an asset over time for strategic business applications.

OBJECTIVES

- To understand the role of Artificial intelligence.
- To identify the relationship between Artificial intelligence and Consumer Buying Behaviour.
- To understand the impact of AI on Consumer Buying Behaviour.

RESEARCH METHODOLOGY

The research has been based on conceptual research. An in-depth study was carried out. This paper discusses the role of artificial intelligence on the buying behaviour of consumers to understand the depth of the concept behind the role of artificial intelligence on the buying behaviour of consumers.

Secondary data has been used, along with studies from previous researchers, to identify various aspects related to the topic. The literature review and introduction have been prepared with the help of research paper publications, articles, and other internet sources.

MAJOR FINDINGS AND DISCUSSION

- Personalized product recommendations based on consumer Behaviour, interests, and purchase history are made possible in large part by artificial intelligence (AI).
- By customizing recommendations to each user's preferences and requirements, AI-driven recommendation systems increase user happiness.
- Since customers are more inclined to make purchases that are in line with their preferences, personalized recommendations have been demonstrated to boost the likelihood of successful conversions.
- Artificial intelligence (AI) generates insights that guide personalized suggestions by analyzing massive volumes of customer data, including browsing Behaviour and past interactions.
- By providing relevant and personalized recommendations, artificial intelligence (AI) meets the expectations of modern consumers for a more personalized and customized purchasing experience.
- The incorporation of artificial intelligence (AI) into recommendation systems has a profound effect on the conventional consumer purchasing journey, altering decision-making procedures and purchasing patterns.
- Why When customers connect with goods and services that closely match their interests and preferences, AI-driven personalization makes shopping more enjoyable.
- Companies that use AI-driven recommendation engines deliberately might gain an advantage over their competitors by predicting and satisfying customer demands and building brand loyalty in the process.

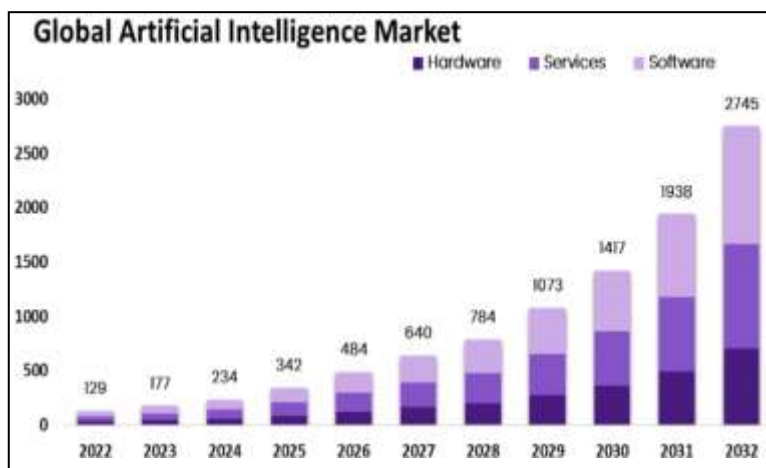


Figure 1: Global Artificial Intelligence Market

Source: <https://market.us/report/artificial-intelligence-market/>

The artificial intelligence market is expected to reach a valuation of more than USD 2,745 billion by 2032, indicating its rapid growth. This remarkable rate of growth can be ascribed to a number of factors, such as the growing need for AI solutions by the government and corporate sectors, the quick development of AI tools technologically, and the falling costs of AI products' hardware and software.



Figure 2: Artificial Intelligence and Consumer Experience

Source: <https://www.spiceworks.com>

Consumers reward companies that meet their specific needs and provide easy-to-use experiences. A user that led the way in enhancing customer satisfaction benefits from a 3.3X bigger yearly improvement in client retention rates (10.5% vs. 3.2%), as Figure above shows. Because AI can leverage machine learning to analyze large amounts of consumer contact data and identify factors that influence customer attrition, its users outnumber non-users. This enables AI users to take advantage of real-time, next-best-action recommendations based on those insights to reduce risk factors, assisting businesses in using data to accurately comprehend and meet the needs of their customers.

CONCLUSION

Finally, it should be noted that artificial intelligence (AI) is having a revolutionary effect on how consumers interact with products and make judgments about what to buy. One significant discovery focuses on the effectiveness of tailored recommendations, which is a fundamental component of AI applications in the retail sector. Recommendation engines powered by artificial intelligence (AI) and advanced machine learning algorithms mine enormous databases that include user preferences, browsing, and purchase history. In addition to raising customer happiness, this personalized touch helps to raise conversion rates. Customers are more likely to make judgments about what to buy that align with their interests because they are used to receiving well-curated and pertinent recommendations. Recommendation engines are becoming increasingly dependent on the strategic application of AI to meet and beyond customer expectations. This process is greatly aided by AI's data analysis skills, which offer insights that let companies instantly recognize and adjust to changing customer preferences.

Furthermore, it is impossible to overestimate how drastically AI has changed the conventional customer purchasing process. The incorporation of AI transforms the way consumers find, assess, and choose items, going beyond simple process automation. The modern shopping experience has come to anticipate customization, and companies that use AI are well-positioned to meet this expectation. AI technology will become more and more influential in shaping consumer Behaviour as it develops, therefore companies looking to stay ahead in a competitive and dynamic market will need to take a proactive and strategic approach. In the end, the combination of AI and consumer purchasing Behaviour is a potent force that is changing the face of business in the digital era

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