AI Driven Consumer Behaviour: Trends, Effects and Implications

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M. Raga Keerthika
MBA, UGC NET, (Ph.D.), Assistant Professor
Jain College (Autonomous), Bengaluru

R. Jaideep
MBA, M.Com. Assistant Professor
Jain College (Autonomous), Bengaluru

Abstract
It is significantly noted that Artificial Intelligence (AI) is playing a pivotal role in changing the global economy. This paper also proposes a framework that tends to connect artificial intelligence capabilities to consumers trust, satisfaction and loyalty but also raises important concerns about data privacy bias algorithms and the need for transparency. Artificial intelligence has deeply transformed to consumers behaviour, Influencing the individuals in recognizing the needs, search for information, evaluating alternative products, make purchase decisions on engaging in post-purchase activities. The findings of this paper suggest that AI enhances market efficiency, contributes to sustainable competitive advantage and also improves customer experience in online shopping. However, it also highlights that responsible management and the use of an appropriate strategy are needed in order to handle risks and maintain customer's trust.
Keywords: Consumer Behaviour, Digital Marketing, Artificial Intelligence, Personalization, Predictive Analysis and AI Ethics.

Introduction

Artificial intelligence (AI) Has moved on its focus from broadcasting general messages to everyone towards creating a data driven interaction with each customer. The rise of the digital platforms large data sets and smart computer programs has made it very much possible for companies to and analyse large amount of consumers information almost instantly (Davenport et al, 2020).

Earlier marketers used to divide customers into groups based on their basic characteristics like age or income. Nowadays, AI allows businesses to identify much more specific patterns in their behaviour, predict what customers want and automate customer decisions. These abilities help most of the companies to attract new customers, keep their existing ones and to also increase the relationship with customers (Verma, 2021).

It is significantly noticed that customer activities are towards digital spaces, shopping websites, phone apps, social media and smart devices. While AI helps in understanding what people are doing, why are they shopping online and what are their interest. AI programs examine how users browse websites, what they have bought before, their social media reactions and how they engage with content in order to predict preferences and to tailor experiences (Puntoni et al, 2021).

The study aims to:

1. To develop a conception framework that would AI implementation to marketing outcomes.
2. To examine a theoretical evolution of artificial intelligence and consumer behaviour.
3. To analyse and to determine shaping purchase positions in the digital environments.
4. To discuss ethical management and strategical implications in the marketplace.
5. To explore artificial intelligence influence across all the stages of consumers decision making process.

Literature Review

How Has Artificial Intelligence Developed Over Time

Artificial intelligence started by researching in finding out to how human mind works. Scientists have developed various programmable computers and logical systems that could appropriate reason and make decisions based on human's priorities over the years artificial intelligence moved from BASIC based on programs to machine learning and deep learning systems that could recognize the patterns and can learn from data on its own (Kok,2018). It is noticed today's world artificial intelligence has become a major tool in marketing. There are various technologies natural language machine learning and predictive analysis that would allow companies to understand better predict what consumers want (Huang and Rust, 2021).

While modern artificial intelligence tools prove is used in marketing like Voice Assistant chat boots recommendation engines image recognition systems sentiment analysis and automated content generation. Thus, Existing research shows that artificial intelligence influences all the five stages of buying processes: recognizing a need, searching for information, evaluating the experience comparing the options and making an appropriate and suitable product purchase. Overall, Artificial Intelligence greatly improvises efficiency and personalization. Researchers also stress the importance of being ethical, transparent and maintaining the consumers trust (Verma et al, 2021).

Understanding How Consumers Make Decisions

Consumer behaviour was studied by attention to sociology psychology economics and marketing it looks at how people think feel and how are they influenced by others when they decide what they need to buy (Schiffman and Wisenblit, 2015). Traditional models tend to explain Stimulus-Response Model, The Theory of Planned Behaviour, the Engel-Kollat-Blackwell Model and The Five-Stage Decision Models.

According to Huang and Rust (2021), Artificial intelligence can be understood at three levels in marketing: mechanical artificial intelligence which handles automation, thinking AI with supports analysis and decision-making skills and lastly feeling AI which recognizes and responds to human emotions. This framework explains how AI improves each stage of customer journey in order to make appropriate decision and experience more personal and responsive feeling.

Contrarily, Davenport et al (2020), that not only enables hyper personalization, delivers the customer insights but also automates customers interactions. Thus, ensuring AI Power recommendation systems and chat boards significantly influence purchase decisions by reducing the effort needed to search for information and making suitable suggestions that would feel more relevant. In a broader view of AI's role in marketing, it was found that it improves customer engagement, targeting accuracy and the ability to protect behaviour. Machine learning algorithms in particular are the key tools for analysing patterns in consumer data helping marketers to forecast preferences and to customize their offerings.

From customers Perspective (Puntoni et al. ,2021) explores how people psychologically respond to a driven interruption. Researchers found that customers trust received a transparency and emotional reactions which are crucial in determining whether people accept AI based systems. It also suggests that AI boost efficiency. Its success ultimately would depend on maintaining a human like sense of empathy and handling the data ethically. It is also found that AI contributes to a better customer segmentation, dynamic pricing and more targeted advertising. Thus, highlighting that AI's predictive power allows most of the companies to anticipate customers need even before the consumer themselves are fully aware of it (Chintalapati and Pandey, 2022).

What Shapes Consumer Behaviour in the Digital Era

Psychological Factors

Psychological factors mainly include motivation perception beliefs learning and attitudes that would shape customers buying. AI influences these factors by controlling what information people you're exposed to and how are their choices being presented Example personalized product recommendations change how a customer perceives the product by focusing on the features that would match their preferences when people repeatedly tend to see algorithms selected content it mainly reinforces their familiarity with a brand making them more likely to trust and purchase it (Kotler et al, 2017).

Personal Factors

Personal factors mainly include occupation age, income and lifestyle that would mainly affect the buying patterns of the customers. AI goes beyond traditional demographic assumptions by creating a behavioural profile based on their actual actions. For example, machine learning models that could identify lifestyle clusters by analysing browsing behaviour, online content engagement, fitness app usage and providing a much richer picture about the consumer in realizing what does the consumer really want (Kumar & Naveen, 2022).

Cultural and Social Factors

Cultural and social factors help in analysing and allowing businesses to track cultural trends and peer influence in the real time. AI systems analyse active engagement patterns, the reach of social media influencers and social network connections. These not only help marketers design campaigning they also feel culturally relevant and resonate with specific communities (Batra and Keller 2016).

How Consumers Make Decisions in the Artificial Intelligence Era

Customers decision making generally falls into three major firstly collective decision-making ability that would involve multiple people in making an appropriate decision. Secondly, routine decisions that is habitual purchase with little thought. Lastly extensive decisions which tend to have a high involvement with detailed evaluation The classic five-stage model remains relevant but has been significantly reshaped by artificial intelligence:

- To identify the and appropriate customers
- To search relevant information based on customers choice
- To evaluate alternatives
- To make an appropriate purchase decision
- Post-Purchase Behaviour Of the customers
- How AI Affects Each Stage of The Decision Process

Need Recognition

Nate regulation would be the starting point of any purchase (Kotla it al, 2017). Artificial intelligence enhances this stage by Analysing modern behaviour social media and search history in order to detect what customers might need before they even realise it themselves for example artificial intelligence public systems like Microsoft Azure Ai process large data sets in order to identify customer preferences in real time while image recognition tools on platforms like interest recommend products based on what users interact with it also predicts emerging needs by analysing season and geo location data and social media signals. Some of these predictive systems can recommend products before consumers actively search for them. This provides a shifting market from a reactive approach to an anticipatory one (Kietzmann, 2018).

Information Search

When consumers look for information about your options artificial intelligence helps in simplifying and speeding up this process tools like search engine algorithms, personalised advertisements, voice assistance and chat bots help the consumers in order to find what they looking for with less effort.

According to (Davenport et al, 2020), Companies using AI supported search systems have reported that significant increase in digital revenue Platforms like Google ads and AI-driven CRM tools Help Mankato's reach high volume consumers. However, these tools also create a future bubble situation where consumers are only shown information that matches their existing preferences. And it plans to limit their exposure to alternative viewpoints and potentially narrowing their choices.

Evaluation of Alternatives

Artificial intelligence makes comparing product much easier through recommendation engines price comparison tools, review summarization and productive rating systems. Some of the platforms like Amazon and Netflix tend to use a collaborative filtering and attempts to identify patterns among the users with similar taste. In order to suggest a product that align with what the customers are likely to want (Hung and Rust, 2021). Artificial intelligence also helps in reducing decision fatigue by narrowing down the choices it may also tend to reduce consumer autonomy by limiting the range of options presented to them.

Purchase Decision

Artificial intelligence helps in influencing the urgent moment of purchases through dynamic pricing algorithms that would adjust prices based on demand, real-time discount and Predictive card reminder that prompt consumers to complete the purchases fraud detection systems and a streamline checkout process. Thus, personalised pricing strategy aims to maximise revenue by keeping the experience of the customers.

Post- Purchase Behaviour

Post purchasing it is noticed that customers expect a long term loyalty. Satisfied customers are more likely to buy again and recommend products to others. Artificial intelligence helps in businesses proactively to address dissatisfaction through automated follow up email's, sentiment analysis of customer reviews, loyalty program optimization and predictive churn detection. AI-powered chatbots and sentiment analysis tools help in monitoring customer satisfaction and responding to complaints in the real time (Puntoni et al, 2021).

Conceptual Framework

This study proposes a framework that tends to link Artificial intelligence capabilities to consumer outcomes

Data Analytics → Personalization → Consumer Trust → Purchase Intention → Satisfaction → Loyalty

The following moderating variables can weaken or strengthen these marketplaces:

- Privacy concern of the customers
- Algorithm transparency
- Perceived risks in the marketplace
- Digital literacy of the data

This framework offers a clear and a structured way to think about how Artificial Intelligence creates value in marketing and also highlights the conditions under which it might fail in the marketplace.

Challenges in Implementing Artificial Intelligence in the Marketplace

Despite various benefits in implementing artificial intelligence in marketing there comes a significant challenge:

- Complexity of integrating artificial intelligence with the existing systems
- Organisational resistance to the change
- High technological investment costs
- Cyber security threats and data breach risks

Overcoming these challenges requires a strong alignment between the information technology departments and marketing teams. As well as a clear organisational strategy in order to implement and adapt artificial intelligence in the marketplace (Davenport et al, 2020).

Future Research Directions

There were many for future research studies should explore:

- How the government regulations could affect artificial driven marketing
- The cross-cultural differences to determine how consumers accept and entrust artificial intelligence.
- The long-term impact of artificial intelligence on consumer loyalty over the period of time
- How emotional artificial intelligence can better understand in response to human feelings
- How consumers perceive the fairness of algorithmic decisions.

Researchers are also encouraged to use controlled experiments, surveys and structural equation modelling in order to empirically test the propositions outlined in this study.

Limitations

This paper provides a conceptual study and helps in building a review on the existing literature. It mainly does not include an original empirical data. The relationships proposed in the Conceptual framework need to be tested through real world research with the consumers. Future studies should collect the primary data through surveys and experiments in order to validate these ideas.

Conclusion

Artificial Intelligence driven marketing has pushed to companies towards data centric strategies. When the opportunities are enormous ethical governance transparency and trust building which remain absolutely critical over the long-term success (Puntoni et al, 2021).

Artificial intelligence has fundamentally changed how consumers behave in digital markets. By combining predictive analytics machine learning and automation businesses can now anticipate what consumers need, Deliver personalised experiences and improve overall satisfaction (Hung and Rust, 2021).

In the future marketing will be shaped by a responsible artificial intelligence technology that would balance efficiency and automation with general respect for customer rights and empowerment.

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