

THE USE OF ARTIFICIAL INTELLIGENCE IN MARKETING

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Abstract

AI help to Marketing to difference ways and different supportive for content development Machine-learning algorithms also can help identify disengaged customer segments that are about to churn or leave for a competitor. AI-powered tools in this category can help gather data, build a predictive model, and test and validate that model on real customers and also explain about history of marketing and AI Content creation and curation are vital for any marketing department as they help you produce and distribute engaging and valuable content for your audience. By using AI and ML, you can automate and enhance your content creation and curation processes and generate more original and relevant content for your marketing campaigns. Social media marketing is one of the most popular and powerful marketing channels It allows you to reach and interact with your audience on various platforms such as Facebook, Twitter, Instagram, and YouTube. By using AI and ML, you can enhance your social media marketing strategies and increase your reach, engagement, conversion, and loyalty.

Keywords: Use Of Artificial & Intelligence, Marketing, Email Marketing, Ai-Powered Customer Insights, Using AI, And MI

INTRODUCTION

Artificial intelligence is an umbrella term that covers several different technologies, like machine learning, computer vision, natural language processing, deep learning, and more. At their core, though, all of these technologies help machines perform specific cognitive tasks as well as or better than humans. For instance, AI-powered computer vision systems in self-driving cars are able to identify obstacles just like people do, allowing the machine to take the wheel. Your favourite voice assistant, like Alexa or Siri, understands your words just like another person, then responds in kind all using AI. Amazon and Netflix use AI recommendation engines to offer up products and movies you might like, making assumptions about your preferences just like a fellow product or movie enthusiast might. While there are a ton of complexities to different types of AI, all you really need to know right now is that "artificial intelligence" describes many different types of smart technologies. And many of these technologies can impact your sales process, career, and performance in profound ways. That's because AI isn't just automation, though it may include elements of intelligent automation. And it's not just using ChatGPT for a couple tasks at work.

WHAT IS MARKETING?

Marketing is the process of creating, promoting and distributing products and services to customers. It is the process of researching, advertising, selling and distributing a product or service to a target audience. It involves understanding consumer needs and wants and creating a product or service that meets those needs and wants. It also involves developing pricing strategies, promotional tactics and distribution channels that will lead to the greatest customer satisfaction.

WHAT IS ARTIFICIAL INTELLIGENCE?

Artificial intelligence is the creation of intelligence machines which are capable of thinking and reacting like humans, John McCarthy coined the term "Artificial Intelligence" and McCarthy was one of the founders of the discipline of artificial intelligence. Artificial Intelligence (AI) refers to the ability of machines to perform tasks that would normally require human intelligence to accomplish. AI technologies use algorithms, statistical models, and other computational techniques to learn from data and make predictions or decisions based on that learning.

HISTORY OF MARKETING

Industrial Revolution (1760-1840s): The development of mass production techniques led to an increase in supply, and marketers began to focus on creating demand for their products through advertising and salesmanship.

Rise of Advertising (late 1800s): The introduction of mass media, such as newspapers and magazines, provided new opportunities for businesses to reach a larger audience through advertising.

Marketing as a Discipline (early 1900s): The first marketing textbooks were published, and marketing began to be recognized as a distinct field of study.

Consumer Culture (1920s-1950s): The growth of consumerism in the post-World War II era led to an emphasis on branding, packaging, and product design as key elements of marketing.

Digital Age (1990s-present): The widespread adoption of the internet and digital technologies has revolutionized marketing, with the rise of online advertising, social media marketing, and e-commerce.

❖ **EVOLUTION OF MARKETING TO ARTIFICIAL INTELLIGENCE GENERATION**

Marketing has undergone a significant transformation over the years, from traditional methods like print and TV advertising to digital marketing through social media, email, and search engines. In recent years, the rise of Artificial Intelligence (AI) has further revolutionized marketing, allowing companies to analyze data and automate processes in ways that were previously impossible.

One significant way AI has impacted marketing is through data analysis. With the increasing amount of data available to marketers, AI can help to analyze and interpret that data to gain insights into consumer behaviour, preferences, and needs. AI can also be used to personalize marketing messages and experiences for individual consumers, making them more relevant and engaging.

❖ **HISTORY OF ARTIFICIAL INTELLIGENCE:**

The birth of AI: The concept of AI was first introduced in the 1930s by mathematician and philosopher Alan Turing, who proposed the idea of a machine that could simulate human intelligence.

The 1950s: In the 1950s, a group of researchers including John McCarthy, Marvin Minsky, Claude Shannon, and Nathaniel Rochester organized a conference at Dartmouth College to discuss the possibility of creating machines that could think like humans. This conference is widely considered to be the birth of AI as a field of study.

The 1960s and 1970s: During the 1960s and 1970s, AI research focused on developing rule-based systems, which used a set of logical rules to make decisions. These systems were used for applications such as expert systems and natural language processing.

The 1980s and 1990s: In the 1980s and 1990s, AI research shifted towards developing machine learning algorithms, which could learn from data without being explicitly programmed. This led to the development of neural networks, which were modeled after the structure of the human brain.

The 2000s and beyond: In the 2000s and beyond, advances in computing power and data storage have enabled the development of deep learning algorithms, which use multiple layers of neural networks to perform complex tasks such as image recognition and natural language understanding. Other areas of AI research include robotics, cognitive computing, and autonomous systems.

❖ **HOW IS ARTIFICIAL INTELLIGENCE IMPACTING MARKETING?**

AI Marketing is quickly becoming an important ingredient that can no longer be ignored, so what can marketers expect from AI both now and in the future, and how exactly will it impact their overall business strategy?

AI is transforming the way marketers approach their campaigns. AI enables marketers to gain a deeper understanding of their customers and to create personalized experiences for them. AI can be used to analyze customer data and to identify customer segments with similar characteristics. This can then be used to target specific audiences with tailored content, increasing engagement and driving conversions.

❖ **KEY USES OF ARTIFICIAL INTELLIGENCE IN TODAY'S MARKETING**

➤ **CHATBOTS: -**

If there's one type of AI that businesses see as a game-changer, it's chatbots. Chatbots are already on numerous websites, as they excel at answering customers' frequently asked questions. The key fascination with chatbots is the impact they can have on the customer experience. For some businesses, there aren't enough employees or hours in the day to answer customer queries quickly.

➤ **CREATING-GENERATING CONTENT: -**

What? A machine that writes by itself and creates content from scratch? There's no way! But I have news for you...

There is a way! And even though AI still can't write its own political opinion for a newspaper column or a blog post on the best and most practical advice for a specific industry, there are certain areas in which content created by AI can be useful and help attract visitors to your website.

➤ **CONTENT CURATIONS: -**

AI is not only able to generate content; it can also curate it. Content curation by artificial intelligence will make it possible to better connect with visitors on certain websites and show them more relevant content. This technology is commonly used to make personalized content recommendations that the user may find interesting, such as the typical. "People who buy X also buy Y," like we constantly see on Amazon.

➤ **PRODUCTION & CONTENT RECOMMENDATIONS :-**

Fast forward to 2019, and some of the most successful digital companies have built their product offerings around the ability to provide highly relevant and personalized product or content recommendations-including Amazon, Netflix and Spotify. As Lori Goldberg wrote in a brief history of artificial intelligence in advertising for Econsultancy.

➤ **EMAIL MARKETING :-**

Brands are using the power of AI to personalize email marketing campaigns based on preferences and user behaviours. This makes it possible to better connect with them and, with a hint of luck, turn them into clients.

➤ **DIGITAL ADVERTISING:-**

Digital advertising is, without a doubt, the area of digital marketing that's most successfully adopted artificial intelligence.

For example, Facebook and Google ad platforms already use machine learning and artificial intelligence to find people more prone to making the advertiser's desired action. HOW

❖ **ARTIFICIAL INTELLIGENCE SUPPORT**

Artificial Intelligence (AI) can support various areas of human life in many ways. Here are some examples:

➤ **HEALTH CARE** : AI can help doctors and healthcare professionals diagnose diseases, analyze medical images, and develop treatment plans. AI-powered tools can also assist with patient monitoring and management, providing more personalized and effective care.

➤ **EDUCATION** : AI can support education by providing personalized learning experiences for students, automating administrative tasks, and helping teachers to identify areas where students need extra help.

➤ **BUSINESS** : AI can support businesses by automating routine tasks, improving customer service, and analyzing data to gain insights into consumer behavior and market trends. AI-powered tools can also optimize supply chain management, reduce waste, and increase efficiency.

➤ **SOCIAL SERVICES** : AI can support social services by identifying patterns of fraud and abuse in welfare programs, providing personalized support for people with disabilities or mental health conditions, and optimizing resource allocation to support vulnerable populations.

❖ **WAYS INTELLIGENT MARKETERS USE ARTIFICIAL INTELLIGENCE:-**

➤ **AUTOMATED IMAGE RECOGNITION**

If you've recently used Google Photos, you may have noticed how good the system has become at recognizing people and images. In recent years, software has become superhuman at recognizing people, with accuracy exceeding 99%.

➤ **INTELLIGENT-MAIL CONTENT CURATION**

Your team often spends hours compiling and scheduling weekly emails to multiple customer segments. Even with smart subscriber segmentation, you can't deliver a personalized email to every single customer. Yet, a 2016 study by Demand Metric found that 80% of marketers say personalized content is more effective than "unpersonalized" content.

➤ **AI-ENHANCED PPC ADVERTISING**

Most marketers allocate their pay-per-click budgets to AdWords and Facebook. According to eMarketer, Google controls 40.7% of the U.S. digital ad market, followed by Facebook with 19.7%.

➤ **SMART CUSTOMER ENGAGEMENT**

Machine-learning algorithms also can help identify disengaged customer segments that are about to churn or leave for a competitor. AI-powered tools in this category can help gather data, build a predictive model, and test and validate that model on real customers. That information can indicate what stage of churning the person is in. While quick-churn customers (users who abandon a product shortly after starting to use it) are difficult to re-engage, late-churn customers (those who have a long-lasting relationship with your brand) can be incentivized to keep using your product.

➤ **AI-POWERED CUSTOMER INSIGHTS**

Where it would take humans an immense amount of time to crunch all the numbers and match them to customer's behavioral patterns, AI can give marketing insights on the fly. Dynamic Yield helps the likes of Under Armour, Sephora, and Urban Outfitters build actionable customer segments by using an advanced machine-learning engine

➤ **AI-POWERED CONTENT**

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➤ **AI-POWEREDCONTENTCREATION**

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➤ **CONTENT-CREATIONCHATBOTS**

If you've recently chatted online with a customer service rep, your helpful correspondent named Ashley or Jen might have held a little secret – she's a bot.

From fashion to health to insurance, intelligent chatbots are providing borderline magic customer support. And in some cases, they're better at creating personalized content than humans.

➤ **HIGHLYPERSONALIZEDWEBSITEEXPERIENCEANDBETTER**

While AI's capacity is far from being able to build new websites from the ground up, it can help you enhance your visitor experience with intelligent personalization on your site.

CONCLUSION

In this my research paper AI help to Marketing to difference ways and different supportive for content development Machine-learning algorithms also can help identify disengaged customer segments that are about to churn or leave for a competitor.AI-powered tools in this category can help gatherdata, build a predictive model, and test and validate that model on real customers and also explain about history of marketing and AI

REFERENCE

- [1] Ahmed,K.(2015,September16).Google'sDemisHassabis-misuseofartificialintelligence 'could do harm'. <https://www.bbc.com/news/business-34266425> Accessed: 6 November 2018,
- [2] Bughin,J.,Hazan,E.,Manyika,J.,&Woetzel,J.(2017).ArtificialIntelligence:TheNext Digital Frontier, McKinsey Global Institute.
- [3] Hoanca,B.andForrest,E.(2015).ArtificialIntelligence:Marketing'sGameChanger -IGI Global
- [4] Kaput,M.(2016,November1).TheMarketer'sGuidetoArtificialIntelligence Terminology.
- [5] <https://www.marketinginstitute.com/blog/the-marketers-guide-to-artificial-intelligence-terminology> Accessed:6November2018. 6. Lee, C.,Wang, M.,Yen, S., Wei, T., Wu,L. Chou, P. & Yang, T. (2016, August).
- [6] <https://mobidev.biz/blog/artificial-intelligence-ai-marketing-use-cases>
- [7] <https://www.adverity.com/ai-marketing>
- [8] <https://www.sciencedirect.com/science/article/pii/S2666603022000136>
- [9] <https://levity.ai/blog/how-to-use-ai-for-marketing-benefits-examples>
- [10] <https://contentmarketinginstitute.com/articles/marketers-use-artificial-intelligence/>
- [11] https://www.marketingevolution.com/marketing-essentials/ai-marketing?hs_amp=true