

# **Revolutionizing Digital Marketing through Artificial Intelligence**

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**Abstract:** Artificial intelligence (AI) has emerged as a transformative technology in various industries, revolutionizing processes and unlocking new possibilities. In the realm of digital marketing, AI is playing an increasingly significant role, enabling marketers to enhance targeting, personalization, and efficiency. This paper explores the impact of AI on digital marketing, examining its applications, benefits, challenges, and future prospects. By analyzing case studies and industry trends, this paper aims to provide insights into how AI is reshaping the landscape of digital marketing and driving innovation in customer engagement strategies.

Keywords: Artificial Intelligence, Digital Marketing, Personalization, Targeting, Automation, Customer Engagement

## Introduction:

In today's digital age, the proliferation of data and the evolution of technology have transformed the way businesses connect with consumers. Digital marketing has become an essential component of marketing strategies, enabling brands to reach and engage audiences across various online channels. With the advent of artificial intelligence (AI), marketers have gained access to advanced tools and capabilities that revolutionize the way they interact with customers. This paper explores the role of AI in revolutionizing digital marketing, examining its applications, benefits, challenges, and future implications.

## **Book Review and Conceptual Models:**

The purpose of this chapter is to enable the reader t o understand artificial intelligence and artificial inte lligence concepts such as machine learning, Deep le arning and digital marketing. The information colle cted over the past two years is of great value to toda y's youth. Although experts are unaware of the pote ntial that data can provide to organizations, data is n ow becoming a part of the daily operations of the b usiness world.

## 2.1 Artificial intelligence

Artificial intelligence research dates back to the 195 0s, when Alan Turing created the famous Turing Te st to determine whether a machine could think.

Artificial Intelligence (AI) has played an important role in the development of many businesses and ser vices around the world. Wichert (2020) discusses h ow artificial intelligence is used in quantum comput ing and machine learning. It helps solve difficult pr oblems quickly (Wichert, 2020).

The volume and complexity of data is increasing fa ster than humans can process it efficiently (Wichert, 2020). Humans often cannot solve or solve comple x problems quickly, but machine learning makes thi s possible and faster (Wichert, 2020). Quantum com puting can solve problems in seconds, a simple task (Wichert, 2020). Wichert said that the advancement of quantum information requires machine learning in artificial intelligence (Wichert, 2020). Even with out a quantum computing solution, positivity will c ontinue.

## 2.1.1 Machine Learning

Machine learning is a subtype of artificial intelligen ce that automates analysis, conceptual modeling, an d enables computers to independently adapt to new settings. Mahesh (2020) stated that machine learnin g is used to predict the prices of products, but it has disadvantages due to many variables affecting the p rice (Mahesh, 2020). Advances in machine learning fall into three main categories: "supervised learnin g, unsupervised learning, and additive learning" (M ahesh, 2020). Each chapter focuses on a specific are a; however, this study revealed that incremental lear ning is the best and most effective form of machine learning in predicting prices of products.

## 2.2 Digital Marketing

The term "digital marketing" refers to the practice o f using digital platforms such as online web pages, mobile devices, social networking sites, search engi nes and other related platforms to promote products and services. . Digital marketing was very popular when the internet first appeared in the 1990s. (Barr on, 2022). The concept of digital marketing is equiv alent to traditional marketing and is often seen as a new way for businesses to interact with customers a nd better understand their behavior, and Digital mar keting strategies are often used together by business es in their marketing plans and activities.

Businesses always rely on print, television and radi o advertising to promote their products. Although th ese options are still available today, the advent of th e Internet has led to a change in the way businesses communicate with their customers. This is where di gital marketing comes into play as it allows interact ion between both businesses and customers by conn ecting business with customer feedback.

## Methodology:

The advantages of this article will be explained in t he next section. created. This study also highlights data collection, reliability, analysis, limitations, and ethics. Data collection was based on interview quest ions and standardized tests.

## 3.1 Method

The method of this article is based on a qualitative method using one-on-one semi-

structured interviews (Saunders et al., 2019). The q ualitative method emphasizes what is said rather tha n focusing on statistics and provides more response s and a better understanding of certain issues, altho ugh the response is often lower in a convenience sa mple.

# 3.2 Data Collection

These data were created using the inductive method as stated in the study. This research was initiated o ut of curiosity. Inductive and qualitative are two ter ms used to describe research studies (Stebbins, 200 1). This is important because there is no informatio n about artificial intelligence and its application in d igital marketing. When the author realizes that a co ncept does not contain important information about the field being researched, he/she needs to do more research on the subject (Breyman and Bell, 2005).

## 3.3 Key Data

Interviewees can understand more from the researc h through qualitative interviews (Bryman and Bell, 2015). Additionally, being selected for an interview is considered more valuable than answering a quic k question (Saunders et al., 2019). The data used in this study are primary data collected through semistructured interviews (Bryman and Bell, 2015). The writer may prepare discussion topics while conduct ing the semi-

structured interview. Since the interview is question

based, there is some flexibility in the answers (Bry man and Bell, 2015).

# 3.4 Secondary Information

According to Gauri and Grnhaug (2010), secondary information is information obtained and recorded f or the reader. For example, census and public infor mation are often included in this database. Secondar y data is often used to support primary data when c onducting a more comprehensive analysis. To make this article relevant, the author has chosen to revie w the existing literature in the chosen field. The aut hors define data collection as data that can be transp orted across time and space and examine why other factors are not the primary goal when it comes to ha ving data (including digital data) that will be used o ver a long period of time. The existing literature on preliminary information in this field is an example of this literature.

# 3.5 Data Analysis

This document is organized around the thematic an alysis process and the main implications of using th ematic analysis if it makes it suitable for new resear chers unfamiliar with quality analysis and therefore provides flexibility in Gender targeting. dimension data (Virginia Braun and Victoria Clarke, 2006). Ac cording to Chris Nosko and Thomas Blake (2009), t he recommended step for analysis is to first define t he collected data. At this stage, researchers now nee d to understand, analyze, and begin to identify recur ring patterns. Second, a thematic framework was de veloped using the dataset as a starting point. Althou gh these points may arise from previously discussed

points, researchlevel material may lead to these points. Third, creat e a scale. It is the process of combining the data set with the content. Then plot the data points accordin g to their main content (such as categories). Finally, map and communication are the final stages of anal ysis, which depend on the perspective of the object guiding the research.

## 3.6 Ethical decision making

This article demonstrates that its participants were more knowledgeable about ethics and followed the ethics guidelines outlined by Saunders et al (2016). Ethical decision making occurs during the planning and design phase of the study and is unique for each study. Additionally, although there is no one-sizefits-

all "standard" for ethics, research should strive to b e consistent with ethics and practices. Some of thes e principles include fairness, fairness, promoting fai rness, benevolence, and reviewing behavior to avoi d harming participants. Additionally, researchers m ust respect participants' privacy, inform them of the voluntary nature of the research, and provide infor med consent. Finally, the importance of the universi ty itself in ethical matters should be taken into acco unt in university research and thesis studies. Sander s et al (2016) confirmed that the research must com ply with the guidelines set out in the university's co de of ethics.

## 3.7 Validity and Reliability

This article examines the situations mentioned by C reswell and Poth (2013). First, the method is accura te when the findings accurately reflect the participa nts. Second, the legitimacy of the study is guarantee d when all participants and opinions expressed are t aken into account. Third, evaluate each part of the s tudy. Finally, reliability research is evaluated based on understanding. The following steps were taken t o resolve these ideas.

• The researcher uses the word to put a period in ea ch sentence without changing its meaning.

• Research analysis was conducted on the data obtain ned from all interviews conducted during the compilation.

• The research defends the claim by using relevant data.

## **Research:**

As mentioned in the research section, this article co llected information from a total of six people. Partic ipants can be divided into two groups according to t heir studies. Each group has three participants. First , two different types of materials are presented. Add itionally, the interview questions were categorized a nd classified according to their relevance to the rese arch purposes.

## 4.1 Data collection

Below shows the data collection process after the fr amework analysis. Below is an evaluation template for both groups of participants. As explained in the Data Analysis section, structural analysis is an exte nsion of frame analysis. This evaluation is the result of the following process.

Authors should first be familiar with the research re sults. Next, the author needs to choose a thematic to pic. In this case, the topic is determined by intervie w questions. We identify and analyze useful informa tion on this topic. This means the participant will re spond. The fourth step is to divide the data into cate gories and subcategories based on their value and i mportance. Repeat previous template search for cor rect distribution. Eventually maps and collaboration s began to guide the search. This is done by interpre ting and understanding the data in a descriptive way that brings results.

4.1.1 Evaluation of the Discussion Regarding the B usiness Employee

1. A marketer's perspective on artificial intelligence and digital marketing.

1.1. After work.

1.1.1. Professional business. 1.1.1.1 Operation.

1.1.2. Experienced in digital marketing and automat ion.

1.1.2.1. Social media marketing automation.

1.1.2.2. Practical knowledge and theoretical knowle dge.

1.2. years of knowledge and experience.

1.2.1. Good knowledge and many years of experien ce.

1.2.2. Gain experience at work.

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1.3. The impact of cognitive skills on business peop le's responsibilities.

1.3.1. Reach people in different ways.

1.3.2. Use data to meet customer needs.

1.3.3. It is automatic for accurate positioning.

1.4. Artificial intelligence and its improvements can help in decision making.

1.4.1. Targeting and marketing campaigns.

1.4.1.1. Plan your business and develop future strat egies.

1.4.1.2. Generate ideas for future events. 1.4.2. Arti ficial intelligence technology is used.

1.4.2.1. Google AI, machine learning products, Fac ebook and HubSpot.

1.4.2.2. Artificial intelligence platform integration.

1.4.3. Achieve business objectives through intellige nce.

1.4.3.1. Follow sales opportunities.

1.4.3.2. Expression.

1.4.3.3. Data can be used to identify areas for improvement.

1.4.4. Expertise in business automation.

1.4.4.1. Theoretical background and technical abilit y.

1.4.4.2. Online technology knowledge and skills. 1. 4.4.3. Flexibility and ability to integrate different ty pes of AI and other tools. 4.1.2 Analysis of the artif icial intelligence expert interview template.

2. Artificial intelligence and digital marketing exper t.

2.1. He has a background in programming and proje ct management. 2.1.1. Electrical engineering and po st-industrial.

2.1.1.1. Degree in Engineering and Project Manage ment.

2.1.2. Artificial Intelligence Perspectives and Persp ectives.

2.1.2.1. Artificial intelligence is like a big brain.

2.1.2.2. Make people work better.

2.1.3. The relationship between digital marketing a nd intelligence.

2.1.3.1 In inbound marketing, artificial intelligence creates messages and personal experiences.

2.1.3.2. Use AI in content marketing and advertisin g campaigns.

2.2. Business automation skills. 2.2.1. Take a short course in common sense.

2.2.1.1. Automation platform. Examples include Hu bSpot and Facebook. 2.3. Knowledge of artificial in

telligence, search engine optimization and machine learning

2.3.1. Gain experience at work. 2.3.2. Learn math. 2 .3.3. Experience in machine learning, content marke ting and social media marketing. 2.3.4. Tailor conte nt for targeted ads. 2.3.5. Artificial intelligence in in bound marketing.

2.4. All aspects of digital marketing benefit from art ificial intelligence and machine learning. 2.4.1. SE O 2.4.2. Advertising and content marketing. 2.4.3.

Using Content for Business Analysis

2.5. Artificial intelligence provides long-

term benefits to companies, consumers and commu nities.

2.5.1. Artificial intelligence is being incorporated in to companies' strategies to remain competitive. 2.5.

2. Learn how advertising is linked to data collection . 2.5.3. Appropriate regulations need to be put in pl ace to manage information collected through intelli gence.

# Analysis and Discussion:

The next section shows a brief summary of the inter view results. As mentioned in the research section, t he quality of this research requires conducting a sur vey to analyze participants' feedback to identify co mmon patterns (Creswell and Creswell, 2018). The name is based on similarities in participants' respon ses. Using the same definition as participants, result s are presented to eliminate misleading information. This article has now done the necessary procedures to find the necessary data for this study and will no w begin to prepare and compare these costs.

This research involves analyzing the experiences of different participants on business automation and a rtificial intelligence technology. This article collecte d information from a total of six individuals as desc ribed in the Methods section. Participants were divi ded into two groups, with three participants in each group, according to their professions. Both docume nts were primarily separated and classified accordin g to the importance of the research objectives based on the interviews.

5.1 The concept of intellectual skills in business.

In the first part of the interview, the participants' wo rk and background were discussed. Participants wer e also asked to define the characteristics of business intelligence and share their thoughts and ideas on t he subject. The interview guide was designed in a w ay that the use of artificial intelligence in digital ma



rketing can work.

#### Artificial Intelligence Experts:

The document shows some changes in the decisions of their work and expertise in artificial intelligence. However, when it comes to the connection between artificial intelligence and the business world, all pa rticipants have the same reaction. All agree that the current state of intelligence is critical to business su ccess. Additionally, the group argued that AI syste ms are designed in such a way that marketers are no t responsible for understanding the underlying struc ture. Although this is useful and provides a better e xperience, they believe marketers need to be aware of the device's true limitations. This means they nee d to understand the pros and cons of the tool. They will be able to use these solutions without fear of in justice.

Participants acquired skills in other disciplines but c hose to study artificial intelligence to improve their business skills. Participants said that artificial intelli gence is like a brain that reaches the same points as humans, but faster and more efficiently. It is the abil ity of a computer or machine to perform human tas ks better. From a business perspective, fraud expert s said this technology has improved the business as a whole.

Participants believe that business leaders need to le arn skills that will improve their business strategies.

#### Marketers:

Marketers have a good understanding of artificial in telligence and its application in digital marketing. F or example, one participant defined artificial intelli gence as a machine that uses reasoning ability and a cts independently. One of the interviewees describe d AI as a machine that is always moving towards hu man intelligence. Basically transfer the ideas in you r head to the computer. Therefore, with the help of a rtificial intelligence, we can contribute to the same t hinking, discussion, reflection and real work as hu mans. Participants said they had little experience wi th technology but used a platform like Amazon for digital marketing. One participant said they are usin g automation with the help of AI to assist with mark eting campaigns by helping clients organize employ ees. The general view is that there is an understandi ng of intelligence, but this understanding is not broa d. These findings are consistent with 2017, when on ly 17% of 1,500 U.S. business leaders reported bein

g knowledgeable about AI technology.

5.2 The impact of intellectual skills on the role and development of business people.

Interviews include the use of business intelligence a nd the role of business people. He also discusses the need for innovation and social awareness in the aut omation process. In the second part of the survey, b usiness people were asked about their thoughts on t he integration of intelligence into their business. "It will change everything and use all of our realities in the next 20-

25 years," said one industry participant... Another participant claimed that artificial intelligence will h elp users by providing products and services that ar e useful to their business. Artificial intelligence tech nology is the evolution of digital business. Research shows that this technology provides many benefits, including improved communication, better underst anding of customer preferences and faster delivery. Additionally, the results in this study show that rapi d feedback can be obtained with the help of artificia l intelligence, helping marketers improve products a nd ensure customer satisfaction.

The business people interviewed said that their com panies integrated artificial intelligence technology i nto their business and this increased efficiency. Acc ording to the organization, most of the AI technologies its companies use include Google AI, machine learning, Python, AI integration, and HubS pot.

## 5.3 Cost of intellectual property in business.

Participants in business meetings claimed that AI h elps save time and provides growth potential by enc ouraging learning from successful information. Mar keting today requires a good understanding of your customers' needs and preferences and the ability to act quickly and effectively on this information. Mos t organizations that do not use business intelligence cannot make decisions based on immediate data. Beyond business automation, the most important as pect of intelligence is the relevance it can provide marketers to customers. Consumers are drowning in a sea of

information and options. Personal data collection al lows businesses to better understand customer beha vior and interests across multiple platforms and con versational contexts, thus optimizing more satisfied customers with relevant content and increased sale. Especially when customers are involved in all ecommerce, they have become more demanding and indifferent towards the brand thanks to the search in formation for purchase evaluation, review and use

5.4 Skills for using skills in business life.

Research shows that cognitive skills are not necessa ry. Participants viewed specific skills as secondary. They argue that the use of technology does not mea n that the design of the machine will be affected. B oth sides seem to agree that AI systems are designe d to be used without the AI's knowledge or understa nding. Therefore, according to both groups of partic ipants, this understanding will be very useful. The r esults of the interviews also show that cognitive skil ls are important. Artificial intelligence experts say t hat they gain artificial intelligence skills by constan tly using technology. One of the interviewees starte d working in his childhood and his skills have impr oved since then. Additionally, the use of AI technol ogy in the business sector can improve their learnin g of the technology and thus increase their skills.

# **Conclusion:**

The business sector is seen as one of the sectors wit h the greatest development potential in the econom y. This is a particularly valid area for improvement t hrough technological development (Fagella, 2019). Business technology continues to evolve and impro ve over time, including modern technologies that in crease efficiency. The digital economy has the pote ntial to create a huge impact on people (Ali and Ma nisha 2020), as the development of technology allo ws businesses to create more products and use busi nesses digitally to expand business opportunities to advertise and sell products to consumers (Ali and M anisha 2020)). Moreover, the development of digit al marketing is the result of the combination of big data and smart research applications. Therefore all personal data and preferences are recorded for com mercial use. This study aims to identify the benefits of digital marketing, specifically the use of artificia l intelligence and marketing automation to improve business results. Additionally, the impact of digital marketing on company performance is also taken in to consideration.

The research revealed that artificial intelligence and marketing automation have a positive impact on di

gital marketing. The research has seen significant d evelopments among companies, as in all types of te chnology, and the findings are consistent with previ ous literature (Rust, 2020; Mari, 2019; Huang and Rust, 2021). Entrepreneurs have high standards and believe that artificial intelligence will continue to i mprove automation and automation will lead to mor e and more jobs. Today's marketers are interested in learning how to improve their digital marketing to reach all customers and communicate their needs.

Examining the use and impact of artificial intelligen ce in the digital economy can provide information a bout the technology and its current applications. Th e results of this study will provide further insight int o the benefits of artificial intelligence technology a nd business automation in business. With the rise of international business on the internet and businesse s promoting their products and services digitally, it i s important to explain how intelligence can be used to market to customers and achieve business goals. The results show that artificial intelligence is a mod ern way of doing business and makes digital busine ss processes effective. Marketers who use digital m arketing skills show significant improvements in th eir marketing strategies. Therefore, it has become i mportant for business leaders to learn AI skills to st ay competitive and increase the profitability of their businesses.

The future of the business world depends on the de velopment of technology and standards in the busin ess world. Technical skills are expected to get the jo b done, create customer experience, and take the bu siness to an incredible level. Therefore, incorporatin g artificial intelligence and business automation int o their systems should be the desire of all business managers because these technologies are accepted worldwide. AI technology is expected to increase G DP through return on investment and therefore supp ort economic growth. These technologies are gradu ally changing the human economy, such as commun ication, and facilitating and improving other activiti es. The virtual assistant model allows each custome r to connect to AI in a human way. Although this de velopment deserves great attention, it is also a fact t hat digital marketing is slowly changing for the bett er.



#### 6.1 Impact Management.

This research shows resources that will become imp ortant for business professionals to know in the futu re so that they can be better prepared. To know how to use AI's capabilities, such as analyzing big data f or dimensions and expectations, business profession als must have the ability to understand and evaluate this information. In addition, production value is se en as one of the main results of the profitability of b usiness management. As one participant noted, the ability to use technology solutions to improve custo mer service is very good, as the customer experienc e has always been technology driven.

Business professionals need to understand how sma rt machines work and implement solutions, so they need skills. Additionally, soft skills related to skills such as social skills and thinking are often importan t for professionals. These skills are important for m any reasons, including advising customers on produ ct development and innovation, which requires und erstanding customer needs and knowing how to use voice when communicating with customers and part ners. Moreover, creativity seems to be an important part of the business professional's role because it is important for good decision making as well as for t he company's new and product decisions. While the importance of companies increases with the introd uction of artificial intelligence into the sector, the in novation of specialized studies in the business worl d will continue to be an important part of the role. Additionally, business professionals should avoid re lying on information as this may corrupt the origina l and lead to high risk. Therefore, business professi onals need to strike a balance between knowledge a nd creativity. But creating new products will becom e less important as AI promises to know all aspects of the creative process.

#### 6.2 Limitations of the Study.

I also experienced some setbacks during the researc h. First, this study focuses on six interviewees who may have a small impression of the real situation. T herefore, the results of this study can only be used i n this context. Greater attention to data collection a nd use of more research methods are needed to obta in a comprehensive perspective. Although the situat ion is similar in other organizations, there are differ ences in some areas that may invalidate the results of this study. Second, time limit is another limitatio n of the study. Although the interviewees were inter viewed over time, it is difficult to tell whether their answers were different or more accurate in different situations.

Thirdly, given the author's desire to reach as many p eople as possible working on artificial intelligence t echnology and digital marketing, it is difficult to fin d enough experts to discuss artificial intelligence an d digital marketing and share their thoughts on this topic. Although the authors have some good practic es, participants may not be motivated to participate in the study due to busy schedules or other constrai nts. However, writers need to be patient so that they can achieve their success goals before the deadline. Additionally, the authors recommend attending ind ustry events that can generate additional leads for in terviewees. However, due to time constraints, the a uthor can attend only one of such events and must r ely on digital methods and channels to record the di scussion. However, the implementation and comple tion of this study provided the authors with effectiv e time management knowledge. Without time mana gement, it will not be possible to complete this artic le in a short time.

#### 6.3 Suggestions for future research

This research analyzes the importance of artificial i ntelligence in digital marketing in modern compani es. Look at primary and secondary data for a clear v iew of today's economy. However, scientific researc h cannot be conducted in this article. This study is o pen to further research. Further research can be don e using different data from different regions, states, countries, or different levels of companies and busi nesses. Findings from other participants can be used to expand this research. Additionally, customer per ception of artificial intelligence and marketing tech nology can be evaluated by researching different cu stomers of digital marketing. This will provide an u nderstanding of how technology impacts business i n today's economy.

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