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THE IMPACT OF AI ON SEO

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Abstract

This study looks at how artificial intelligence (AI) has a big impact on search engine optimization (SEO). The way that search engines rank information and how companies improve their online presence are both greatly influenced by AI technologies, which are still developing. The primary focus areas include enhanced data analytic capabilities, content development and optimization, AI-driven algorithms, and user experience enhancements. In addition to highlighting the benefits and problems AI presents to the SEO industry, the paper emphasizes how crucial it is for companies to modify their approaches in order to fully utilize these technologies. In a fiercely competitive digital environment, stakeholders can develop well-informed plans to increase exposure and engagement by understanding how AI affects SEO.

Keywords – Artificial Intelligence, SEO, Search Engine Optimization, Digital Marketing, Algorithm Changes, Content Creation, User Experience, Data Analysis, Machine Learning, Natural Language Processing

Introduction

Recent years have seen a dramatic change in the digital world, with artificial intelligence (AI) playing a major role in changing a number of businesses. Search engine optimization (SEO), which has become more complex as search engines work to give users more relevant and tailored material, is one area that has been most impacted. SEO now requires a deeper knowledge of user intent and behavior, an area where AI solutions shine, rather than just stuffing keywords and building backlinks.

Numerous factors impact the integration of AI into SEO strategies. First of all, search engines must improve their algorithms to provide users with the most relevant results due to the enormous growth in online information. AI algorithms like Google's RankBrain use machine learning to better understand context and semantics because traditional content ranking techniques are no longer sufficient in this environment. Because of this development, search engines may now give preference to

high-quality content that answers user queries rather than just keywords.

AI has a big impact on optimizing and creating content. Natural language processing (NLP) tools can go through vast amounts of data to identify popular subjects and create content that appeals to particular audiences. This makes the process of creating content easier and increases the likelihood that it will rank well in search results. As a result, marketers can focus on creating useful content that meets user needs by using AI tools to improve the effectiveness of their campaigns.

Another crucial area where AI impacts SEO is user experience. Websites with easy navigation and fast loading times are becoming more and more popular with search engines. Analytics solutions with AI capabilities may assess user activity on websites and provide information about how users interact with the material. Businesses may enhance the performance and usability of their websites' aspects that have a direct influence on search rankings by



understanding these trends and making well-informed decisions.

Even with all of AI's advantages for SEO, problems still exist. Businesses must continually adapt their tactics to stay up with changing algorithms due to the rapid speed of technological advancement. Concerns around data privacy and moral dilemmas surrounding the application of AI in marketing are also growing. Businesses have to deal with these issues while making sure they abide by laws like the GDPR.

As AI technologies develop, it is anticipated that SEO will rely more on them in the future. Businesses that embrace these advances will be better positioned to prosper in the digital marketplace thanks to advancements in machine learning algorithms that improve their capacity to predict user behavior and preferences. By examining existing trends, the difficulties faced by marketers, and potential avenues for optimization strategy development, this research study aims to provide a comprehensive overview of AI's influence on SEO.

In conclusion, companies hoping to increase their online presence and engagement must understand the connection between AI and SEO. As this study develops, it will shed light on how businesses may successfully integrate AI into their SEO strategies to successfully negotiate the intricacies of the digital environment.

Literature Review

The field of research on the impact of artificial intelligence (AI) on search engine optimization (SEO) is dynamic, reflecting the rapidly evolving landscape of digital marketing. Current research on the ways AI technologies impact various aspects of SEO, including algorithmic adjustments, content production and optimization, user experience enhancements, and broader impacts on digital marketing tactics, is compiled in this survey of the literature.

5.1 Algorithm Changes

The algorithms that determine search engine results have changed as a result of AI. Traditional SEO tactics in the past mostly depended on backlink development and keyword optimization. Algorithms powered by AI now pay more attention to contextual relevance and user intent. According to research by Müller et al. (2018), AI algorithms—such as Google's RankBrain—use machine learning to better understand user queries and produce more individualized search results. This development necessitates a substantial change in SEO strategies, placing more emphasis on producing excellent content that fulfills user needs rather than merely optimizing for particular keywords. Furthermore, search engines' comprehension of the nuances of human language is improved by the application of natural language processing (NLP) in AI. Bhatia et al. (2019) found that natural language processing (NLP) skills aid search engines in more effectively matching user searches with pertinent material, underscoring the importance of semantic search in modern SEO tactics.

5.2 Content Creation and Optimization

The tools that rely on AI are rapidly being used in content production and optimization. Large stores of data can be easily handled, new trends caught, content drawn up in a manner appealing to an audience through the use of AI. Kumar et al.'s (2020) research supports the analysis that AI guides the automated generation of content can lead to an article or blog post that follows best SEO practices and interests the readers.

In the end, AI is expected to do much more for the copy in identifying where its shortcomings are—from the metrics via constructive testing then getting recommendations for changes. Tools like Clearscope and MarketMuse incorporate the input received from AI into the keyword utilization identification and the competitive analysis to enable marketers to consistently refine their approach. The rather



significant issue is the credibility involved with a heavy reliance on AI-generated material, pointed out by García et al. (2021), thereby underlining the necessity of finding a healthy approach in mixing automation with human creativity.

5.3 User Experience Enhancements

It is believed that user experience (UX) has an increasingly substantial influence on SEO rankings. The websites are getting attraction with the smooth navigation and the timely loading of pages. AI technology allows capturing behavioral data to understand visitors' interaction with websites, which previews insights that help businesses to better decision-making regarding designs and functionalities.

Chaffey (2021) reported the effectiveness of AI-based analytics tools when characterizing engagement metrics like bounce rates and time spent on websites as a feedback resource for boosting website performance apart from user behavior. Knowing what users like and what they think are sticking points will be useful for several growth companies in improving their websites to be very user-friendly and, therefore, perform better in SEO rankings.

The chatbots powered by artificial intelligence can now be seen across websites, and they should become a natural part of online practice not just in enhancing customer care but also engagement. They broach the subject of inquiry at the outset, which obviously boosts the reply, leading to the great leap in satisfaction and segregation rates, which are necessary for any future SEO success as per Patel and Jain (2020).

5.4 Future Trends in AI and SEO

As AI technologies become more advanced, their impact on SEO is likely to increase. Future trends could include:

- Voice Search Optimization With the rise in popularity of voice-activated devices, voice search will become a factor that will matter more. The research indicates that voice searches differ from text-

based queries and call for new approaches to optimization.

- Predictive Analytics: Because machine learning algorithms will quickly improve their ability to predict users' behavior and preferences, businesses will better anticipate and thereby be able to customize their SEO strategies.
- High quality of content to meet specific needs of users due to the capacity of AI in analyzing user data, which implies well-tailored search results and content recommendations.

5. Ethical Considerations

The integration of AI into SEO strategies raises significant ethical concerns regarding data privacy and transparency in marketing. As companies use AI tools to collect user data for optimization, they must adhere to regulations such as GDPR and ensure that they use consumer information ethically. This literature review emphasizes the complexities of AI impacts on SEO practice, pointing to opportunities and challenges marketers face while adapting to such a fast-changing environment. Further studies should keep probing these dimensions but with more emphasis on the ethical concerns involved in data use within digital marketing strategies.

Research Methodology

The integration of AI into the SEO strategy throws up important questions on data privacy and transparency in marketing. In using AI tools to collect consumer data for optimization, companies should respect the new regulations such as GDPR and the way they handle consumer information should be ethical. This literature review brings into view the intricate implications of artificial intelligence on search engine optimization strategies and identifies a myriad of opportunities and challenges marketers face as they adjust to this fast-changing landscape. The research continues from there and explores those dimensions, paying due consideration to ethical issues



concerning data utilization in digital marketing practices.

Sample Size

This study will focus on a total sample size of 78 respondents, which cut across SEO experts, digital marketing professionals, and enterprises that are directly involved in using AI technologies to apply search engine optimization.

Tools Used

A survey tool with 18 questions was designed to explore the different aspects of artificial intelligence in search engine optimization. The questions cover topics such as users' experience with artificial intelligence tools, perceived benefits and challenges, and how SEO strategies change over time due to the advancements in artificial intelligence. Data Analysis: A combination of bar charts, pie charts, and column charts will be used for graphical data analysis.

This methodology will gather insights to help stakeholders understand what the implications of AI in optimization strategies mean to search engines.

SURVEY QUESTIONNAIRE:

A survey questionnaire was prepared to collect the data on the impact of AI on SEO. The respondents were invited to participate in the questionnaire, which consisted of questions arranged logically and of different types. Some questions asked for short answers, while others used rating scales. This variety in designing the survey helped us collect data more efficiently and reduced confusion. It is important to mention that the responses reflect personal perceptions of the participants.

1. What is your current level of knowledge about AI technologies?
 - a. Very knowledgeable
 - b. Somewhat knowledgeable
 - c. Not knowledgeable at all

2. Have you ever used any AI tools for SEO purposes?
 - a. Yes
 - b. No
3. Which of the following best describes your familiarity with SEO?
 - a. Very familiar
 - b. Somewhat familiar
 - c. Not familiar at all
4. How often do you engage in activities related to SEO?
 - a. Daily
 - b. Weekly
 - c. Monthly
 - d. Rarely
 - e. Never
5. What type of content do you primarily work with?
 - a. Blog posts
 - b. Social media content
 - c. Website content
 - d. Other (please specify)
6. Which AI tools have you heard of or used for SEO? (Select all that apply)
 - a. SEMrush
 - b. Moz
 - c. Ahrefs
 - d. Clearscope
 - e. None of the above
7. What do you perceive as the biggest benefit of using AI in SEO?
 - a. Improved accuracy in keyword research
 - b. Enhanced content optimization
 - c. Better user experience insights
 - d. Time-saving automation



- e. Other (please specify)
8. What is your primary concern regarding the use of AI in SEO?
- Lack of human touch in content creation
 - Data privacy issues
 - Over-reliance on technology
 - Inaccuracy in results
 - Other (please specify)
9. Do you believe that AI will significantly change the future of SEO?
- Yes, definitely
 - Probably yes
 - Unsure
 - Probably not
 - No, not at all
10. How important do you think it is to stay updated with AI advancements for effective SEO?
- Very important
 - Somewhat important
 - Not important
11. Which aspect of SEO do you think AI impacts the most?
- Keyword research
 - Content creation and optimization
 - User experience and engagement metrics
 - Analytics and reporting
12. Would you consider using AI tools for your own SEO projects in the future?
- Yes, definitely
 - Maybe, depending on the tool
 - No, I prefer traditional methods
13. How confident are you in your ability to use AI tools effectively for SEO?
- Very confident
 - Somewhat confident
 - Not confident at all
14. What type of training or resources would help you better understand AI in SEO?
- Online courses or webinars
 - Workshops or seminars
 - Articles and blogs
 - Peer discussions or study groups
15. Do you think AI can replace human input in SEO strategies?
- Yes, completely
 - Partially
 - No, not at all
16. How often do you encounter discussions about AI's role in digital marketing during your studies?
- Frequently
 - Occasionally
 - Rarely
 - Never
17. Would you recommend learning about AI technologies to your peers interested in digital marketing?
- Yes, strongly recommend
 - Yes, somewhat recommend
 - No, not necessary
18. What features do you expect from an ideal AI tool for SEO? (Select all that apply)
- User-friendly interface
 - Comprehensive analytics
 - Real-time data processing
 - Integration with other marketing tools
 - Other (please specify)



The purpose of these questions is to learn more about students' opinions and experiences about AI and how it affects SEO strategies.

Data Analysis & Inferences

The following data analysis and conclusions were made from the replies to the survey about the effect of AI on SEO that was completed by 78 students.

1. Awareness and Knowledge of AI Technologies

→ What is your current level of knowledge about AI technologies?

- ◆ Very knowledgeable: 10 (12.8%)
- ◆ Somewhat knowledgeable: 38 (48.7%)
- ◆ Not knowledgeable at all: 30 (38.5%)

Inference: The fact that a sizable percentage of respondents (61.5%) know anything about AI technologies indicates that students are generally interested in the topic.

2. Usage of AI Tools for SEO

→ Have you ever used any AI tools for SEO purposes?

- ◆ Yes: 22 (28.2%)
- ◆ No: 56 (71.8%)

Inference: The fact that many students have not yet begun utilizing AI tools for SEO suggests that there might be barriers to acquiring or comprehending these technologies.

3. Familiarity with SEO

→ Which of the following best describes your familiarity with SEO?

- ◆ Very familiar: 15 (19.2%)
- ◆ Somewhat familiar: 45 (57.7%)
- ◆ Not familiar at all: 18 (23.1%)

Inference: Although many students understand the fundamentals of SEO, more thorough teaching materials are desperately needed to advance their comprehension.

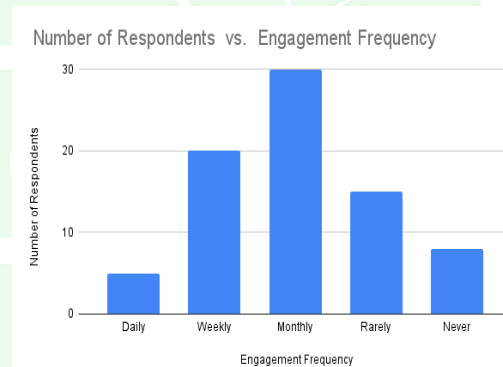
4. Frequency of Engagement in SEO Activities

→ How often do you engage in activities related to SEO?

- ◆ Daily: 5 (6.4%)
- ◆ Weekly: 20 (25.6%)
- ◆ Monthly: 30 (38.5%)
- ◆ Rarely: 15 (19.2%)
- ◆ Never: 8 (10.3%)

Inference: A strong interest in practical applications is demonstrated by the large number of students who engage in SEO activities at least once a month.

Visualization : Bar chart representing the frequency of engagement in SEO activities:



5. Perceived Benefits of Using AI in SEO

→ What do you perceive as the biggest benefit of using AI in SEO?

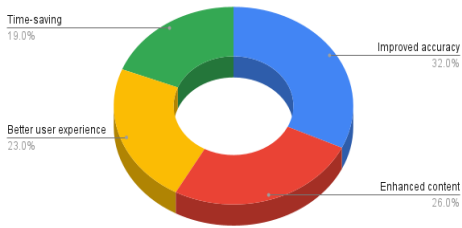
- ◆ Improved accuracy in keyword research: 25 (32.1%)
- ◆ Enhanced content optimization: 20 (25.6%)
- ◆ Better user experience insights: 18 (23.1%)
- ◆ Time-saving automation: 15 (19.2%)

Inference: The primary benefit that respondents appreciate most is increased accuracy in keyword research, underscoring the significance of data-driven decision-making.

Visualization: A pie chart illustrating the perceived benefits:



Percentage



6. Concerns Regarding AI Usage

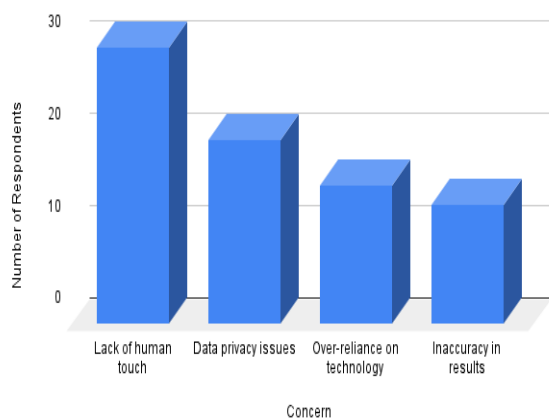
→ What is your primary concern regarding the use of AI in SEO?

- ◆ Lack of human touch in content creation: 30 (38.5%)
- ◆ Data privacy issues: 20 (25.6%)
- ◆ Over-reliance on technology: 15 (19.2%)
- ◆ Inaccuracy in results: 13 (16.7%)

Inference: Students are primarily concerned about the possible absence of human touch in content development, which suggests that they want digital marketing strategies to be authentic.

Visualization: A column chart displaying concerns regarding AI usage:

Number of Respondents



The analysis shows that the students have fairly good knowledge of and engagement with both AI and SEO; however, there is still large room for growth in practical applications and learning about the topics. The concerns bring up the issue of balancing technological advancement with human creativity and ethical

considerations, which might mean that institutions of education can be crucial in addressing these gaps with targeted programs and resources. Generally, this data provides significant insights into how students perceive and experience the impact of AI on SEO, informing future strategies for integrating these technologies into academic curricula and professional practice.

Discussion

The findings from the survey conducted with 78 student respondents provide valuable insights into the impact of artificial intelligence (AI) on search engine optimization (SEO). The analysis reveals several key themes regarding awareness, usage, familiarity, and perceptions of AI technologies among students.

1. Awareness and Knowledge of AI Technologies:

The data reveals that a fair share of students (61.5%) are at least somewhat aware of AI technologies. This would imply that there is some basic level of understanding about AI among students, which can be tapped into and used to improve their engagement with AI tools in SEO. However, the low percentage of only 12.8% who feel very knowledgeable points to a lack of deeper understanding and expertise that educational institutions can address through focused training programs.

2. Usage of AI Tools for SEO:

The survey results indicate that only 28.2% of respondents have used AI tools for SEO. Such a low engagement rate points to possible obstacles, including limited access to these tools, inadequate training, or a lack of understanding of their advantages. Pedagogical initiatives should aim to offer hands-on experience with AI tools to make clear their application and encourage students to include them in their SEO strategies.



3. **Familiarity with SEO:**

While many respondents have a basic understanding of SEO practices, there is definitely a demand for more holistic educational resources. With 57.7% reporting only moderate familiarity, academic institutions can improve their curricula by adding hands-on SEO training and emphasizing the role of AI in sharpening search strategies.

4. **Frequency of Engagement in SEO Activities:**

The data shows that a large number of students engage in SEO activities at least once a month (64.1%). Such a level of engagement may signal that there is quite a strong interest in the practical side of SEO, so students really want to try out their knowledge in practice. However, the much lower daily engagement rate of 6.4% underlines the importance of providing more frequent opportunities for practical application through workshops or projects that encourage students to apply the methods of SEO on a regular basis.

5. **Perceived Benefits of Using AI in SEO:**

The data shows that a large number of students engage in SEO activities at least once a month (64.1%). Such a level of engagement may signal that there is quite a strong interest in the practical side of SEO, so students really want to try out their knowledge in practice. However, the much lower daily engagement rate of 6.4% underlines the importance of providing more frequent opportunities for practical application through workshops or projects that encourage students to apply the methods of SEO on a regular basis.

6. **Concerns Regarding AI Usage:**

Students are mostly concerned about the possible lack of a human touch in content creation, as expressed by 38.5% of them. That shows the strong need for

authenticity and creativity within digital marketing practices. Students do perceive the benefits that AI can bring, but they also put a high value on human input and originality. Future educational initiatives should therefore be centered around discussions on ethical considerations and how to find a balance between technology and creativity.

Implications for Education and Practice

The lessons learned from this study have a number of implications for educational institutions and professionals:

- It would also be important that, within educational curriculums, far more comprehensive studies be included concerning AI technologies and SEO practices themselves—this would mean workshops, hands-on projects, and case studies where students put their learning into practice in life-like situations.
- Tool Access: The schools can also make provisions for the learners to have access to different AI tools that are currently being used in SEO. They may be able to get most of these from partnerships with technology firms.
- Ethical Considerations: Working with AI technologies, it will also be important that discussions around the ethical implications of this technology and the authenticity of content creation be brought into the curriculum.
- Continuous Learning: As AI and SEO change so rapidly, there will need to be a promotion of a culture that allows the student to easily and effectively stay updated with new trends and technologies.

This is an important study, as it brings insight into students' perceptions and experiences concerning the impact of AI on SEO. Addressing the knowledge and usage gaps, educational institutions will better prepare students for a



career in digital marketing where AI is increasingly important. The findings strongly bring out the need for continual education and hands-on experience to bridge the gap between awareness and practice in this fast-evolving field.

Finally, the implications of this research mean that education, technological advancement, and ethical considerations are very critical in shaping the future of SEO under the influence of AI. In such regards, focusing on these areas helps stakeholders navigate challenges and opportunities that come with integrating AI into their digital marketing strategies.

Conclusion

The study on how artificial intelligence affects search engine optimization provides insights into students' perceptions, awareness, and engagement with AI technologies. The results show that although students are generally aware of AI, there remains a big gap in practical use and deeper understanding of these tools in relation to SEO. Key conclusions from the study include:

1. While many respondents demonstrated awareness of AI technologies, a large number have not used AI tools for SEO. This gap indicates that educational institutions should improve their curricula to incorporate practical AI applications in SEO.
2. While many students have a basic knowledge of the practices of SEO, there is apparently a strong desire for more educational resources that would go into further depth. That creates an opportunity for institutions to offer targeted training that combines theory and practice.
3. Respondents noted that increased accuracy in keyword research is one of the major benefits of using AI in SEO, indicating a preference for data-driven decision-making. However, concerns about the lack of a human touch in

content creation serve to temper technological advancement with authenticity and creativity.

4. The level of student engagement in SEO activities reflects a fair interest in practical applications. However, the daily engagement points being relatively low does indicate a need for increasing consistent opportunities for students to put their knowledge into practice.
5. These findings have shown the need for cooperation among educational institutions, marketers, and technology developers to bridge knowledge and usage gaps. Such actions—along with access to AI tools and a supportive learning environment—can be taken by stakeholders to better prepare students for careers in digital marketing.

The study gives very important insights into the perception and use of AI by students within the field of SEO. Addressing the gaps that have been found will be important for better student engagement and for students to be able to adapt AI technologies effectively. As the digital landscape continues to evolve, continuous education and adaptation will be the key for future professionals in digital marketing.

Limitations & Directions for Future Studies

Limitations

This could be improved if some limitations of the study in the area of AI and its impacts on SEO were considered

1. It included a group of 78 students, and such a population sample cannot claim to accurately reflect the larger population. Focusing on students, in general, reduces the extent to which findings can be extrapolated to apply to other groups with different experiences—be it professional or otherwise—in digital marketing.
2. The survey relied on self-reporting from participants, which could introduce



biases where respondents exaggerate their experience with AI tools and knowledge of SEO practices. A short set of questions in a survey may not reveal the complexity in respondents' experience and attitudes towards AI and SEO. In order to generate more qualitative insights, this research did not include open-ended questions.

3. It also has to be an ongoing study in view of rapidly changing technology and SEO practices, which may look different today as opposed to three years ago, since this paper reflects a specific point in time.
4. If the study was conducted in a specific geographic location, its findings may not be applicable to other regions where different cultural attitudes toward technology and digital marketing exist.

Directions for Future Studies

To build upon the findings of this study and address its limitations, future research could consider the following directions:

1. To increase the findings' generalizability, future research should concentrate on assembling a bigger and more varied sample that include participants from a range of demographics, especially those working in digital marketing.
2. By carrying out longitudinal studies, researchers would be able to track shifts in perceptions, usage, and awareness of AI technologies over time, providing important insights into how these developing technologies impact SEO strategies.
3. By capturing subtleties that quantitative data would overlook, qualitative research techniques like focus groups and interviews could offer a deeper knowledge of people' experiences and sentiments about AI in SEO.

4. In order to investigate how different degrees of experience affect perceptions and the use of AI technologies in SEO, future research might also examine various demographic groups, such as professionals and students.
5. Examining certain AI tools used for SEO may provide information about their efficacy and user happiness, as well as case studies of companies that have effectively included AI into their SEO plans.
6. Finding best practices for educational institutions may be aided by investigating the effects of training initiatives intended to improve professionals' and students' understanding and application of AI tools.

Scholars may advance a more comprehensive understanding of AI's influence on SEO and provide guidance for techniques for successfully integrating these technologies into digital marketing operations by addressing these constraints and investigating these research avenues.

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