

THE IMPACT OF AI ON SOCIAL NETWORK ALGORITHMS

With the rapid growth and widespread adoption of social networking platforms in recent years, the role of algorithms in shaping our online experiences has become increasingly significant. Artificial intelligence (AI) has played a crucial role in this evolution, as algorithms powered by AI have been utilized to personalize content. In this context, the impact of AI on social network algorithms is a topic of great relevance and interest.

In an era defined by the remarkable growth of social media platforms that appear to evolve at an accelerated pace, the need for efficient content management and tailored user experiences has surged exponentially. In response to this mounting demand, the advent of artificial intelligence (AI) has emerged as an invaluable and transformative solution. Through the power of advanced algorithms, AI empowers platforms to efficiently navigate immense volumes of data, decipher intricate user behaviours, and curate tailored content that captivates and connects with each unique individual in a profound way [1].

What is AI?

Artificial intelligence (AI) is wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence. AI is an interdisciplinary science with multiple approaches, but advancements in machine learning and deep learning are creating a paradigm shift in virtually every sector of the tech industry.

Today, AI tools exist that can create and manage social media activities, as well as drive strategy with AI-powered insights. Functionalities that Machine learning technology comprises for developing a custom digital assistant:

- speech recognition;
- access to big data;
- robust data analytics capabilities;
- the technique to integrate with social media, email, and third-party applications and platforms;
- pattern and action recognition [2].

Why are social network algorithms important?

Every social media platform comprises a mix of users with different preferences. Without a filtering system, users must navigate through a flood of posts [3].

This is where algorithms come into play. Understanding the ins and outs of algorithms and why they are important is essential for any social media marketing strategy:

- Content Overload. Without algorithms, users would face an overwhelming flood of posts.
- Guided Experience. Algorithms act as intelligent guides, connecting users with content they're likely to enjoy.
- Discoverability. Users find valuable posts, connect with like-minded individuals, and explore their interests.

Benefits of AI in social media

AI is already being used in many systems, but the popularity of generative AI tools, such as ChatGPT has prompted widespread conversations on its use and continued development.

The benefits of AI in social media include the following:

- creating a more welcoming social media landscape to identify inappropriate content (see fig. 1);



- showing specific advertisements to users most likely to engage with a brand based on user data;
- showing users content they might like based on posts, accounts or likes with the goal of further personalizing content and improving the user experience [4].

1. Privacy Concerns

2. Algorithmic Bias

3. Content Moderation Challenges

4. Mental Health Implications

5. Manipulation and Bots



How AI in social media affects audiences?

Artificial Intelligence is getting into every sector these days. It's a good thing though, repetitive work can be decreased and humans can focus more on productivity. And the effects of Artificial Intelligence in Social Media has improved the way how brands are interacting with their followers [6].

Because of AI coming into the Social Media world, now brands and start-ups can share the content that their followers were looking for. With the power of AI in social media analytics now pages can understand how their followers are interacting and they can improve and customize their content accordingly [6].

There are many ways Artificial Intelligence is affecting Social Media. Like:

- chatbots and virtual assistants;
- chatbots and virtual assistants are introduced to decrease human effort. It is also convenient for users;
- optimizing content for social sites;
- interviews, headlines, webinars;
- strategies used by marketers;
- improving user experience;

We all know that user experience has been improved a lot from the past. How twitter is showing its trending tweets, how FB show you ads.

- change in Algorithms;

Now we see the posts according to our activities on the internet. You see ads of the product you have just searched for.

- post Scheduling;

With the help of AI social media posting, now we can schedule our post according to the best time for our content. Posting our content at the right time is very important for our posts to reach a larger audience.

- image Recognition;

Image recognition is used by marketers to determine the behavior of the customer [6].

To sum up, in the contemporary interconnected realm of the digital age, social media has seamlessly integrated into the very tapestry of our daily existence, profoundly reshaping the manner in which we forge connections, engage in communication, and navigate the vast expanse of information. Yet, hidden from plain sight, lies the driving force behind this vibrant landscape of social media platforms: artificial intelligence (AI).

As an influential driving force, AI continues to shape the essence and experience of social media, propelling it into new realms of innovation and connectivity. From content recommendation systems to automated moderation, AI algorithms are powering the functionalities that define our online experiences. This comprehensive article delves deep into the profound influence and remarkable impact of artificial intelligence (AI) in the realm of social media. By exploring the myriad benefits, significant challenges, and far-reaching implications for users and society as a whole, we uncover the intricate relationship between AI and social media, shedding light on its transformative nature.

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