Research on the Paths and Countermeasures for Enabling the High-Quality Development of the New Media Industry through Artificial Intelligence

Lu Peng

Hebei Investment Media & Culture Co., Ltd. Shijiazhuang Hebei, 050000;

Abstract：With the rapid development of technology, artificial intelligence is increasingly applied in various fields, and the new media industry has also ushered in new development opportunities. This article focuses on the important topic of artificial intelligence empowering the high-quality development of the new media industry, and deeply explores the current application status of artificial intelligence in the new media industry. Through analysis, it is found that artificial intelligence has brought significant improvements to the new media industry in aspects such as content creation, precise dissemination, and user experience. It also points out existing problems such as data security and insufficient depth of technology application. Based on this, specific development paths and countermeasures are proposed from multiple dimensions such as technology integration, talent cultivation, and policy support, aiming to provide theoretical support and practical guidance for the new media industry to achieve high-quality development through artificial intelligence, and promote the new media industry to make new leaps in the era of artificial intelligence.

Keywords：Artificial Intelligence; New Media Industry; High-Quality Development; Path; Countermeasure

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In the current digital era, the new media industry is experiencing vigorous development and has become an important force in information dissemination and cultural exchange. With its characteristics of immediacy, interactivity, and personalization, new media has profoundly changed the way people obtain information and communicate. Meanwhile, artificial intelligence, as an important driving force in the new round of technological revolution and industrial transformation, is penetrating into various industries at an unprecedented speed. The continuous progress of artificial intelligence technologies such as machine learning, natural language processing, and computer vision has brought new opportunities and challenges to the development of the new media industry.

Artificial intelligence can assist the new media industry in achieving intelligent content production, precise dissemination, and personalized services, enhancing the efficiency and competitiveness of the industry. The massive data and diverse application scenarios of the new media industry also provide a broad space for the development of artificial intelligence. However, the current application of artificial intelligence in the new media industry is still in the exploration and development stage, and there are many problems and deficiencies. Therefore, in-depth research on the paths and countermeasures for enabling the new media industry to achieve high-quality development with the empowerment of artificial intelligence has important practical significance, and can help promote the new media industry to achieve sustainable and high-quality development with the support of artificial intelligence.

1 Application Status of Artificial Intelligence in the New Media Industry

1.1 Application in Content Creation

In the field of new media content creation, artificial intelligence has demonstrated strong capabilities. For example, some news media have begun to use artificial intelligence writing robots to write news articles such as sports events and financial reports. These robots can quickly collect and analyze a large amount of data, generate news content according to a preset template and logic, greatly improving the production efficiency of news. Artificial intelligence can also generate personalized content recommendations based on users' interests and preferences, providing users with more accurate information services. In video creation, artificial intelligence can achieve functions such as automatic video editing and special effects addition, reducing the threshold and cost of video production.

1.2 Application in Communication and Distribution

In the communication and distribution 环节， the application of artificial intelligence makes information dissemination more precise and efficient. By analyzing user behavior data， social relationships， etc.， artificial intelligence can build user profiles， thereby achieving precise push to different user groups. New media platforms can push appropriate content to target users based on user profiles，improving the dissemination effect and user participation. Artificial intelligence can also monitor and analyze dissemination effects in real time， adjust dissemination strategies in a timely manner based on feedback， and optimize dissemination effects.

1.3 Application in User Experience

Artificial intelligence brings a better experience to new media users. The application of intelligent voice interaction technology enables users to obtain information and perform searches through voice commands， greatly improving the convenience of information acquisition. The emergence of virtual hosts adds a new form to the presentation of new media content. Virtual hosts can work tirelessly in live broadcasts， reports， etc.， and can perform personalized performances according to different scenarios and needs. Artificial intelligence can also understand users' emotions and attitudes through emotion analysis technology， providing more personalized services for users.

2 Problems Facing the Empowerment of Artificial Intelligence in the New Media Industry for High-Quality Development

2.1 Technical Issues

Although artificial intelligence technology has been applied in the new media industry to a certain extent， there are still some technical bottlenecks. For example，natural language processing technology still has deficiencies in understanding semantics and context，resulting in content that may have logical incoherence and inaccurate expressions. Computer vision technology in image and video recognition accuracy and efficiency still need improvement， especially in the recognition ability in complex scenes. 1. Training of artificial intelligence models requires a large amount of computing resources and data, which poses a significant challenge for some small and medium-sized new media enterprises.

2.2 Issues of data security and privacy

The new media industry involves a large amount of user data, and the security and privacy protection of these data are of utmost importance. However, as artificial intelligence is applied in the new media industry, the risks of data leakage and abuse are increasing. Some unscrupulous enterprises may use artificial intelligence technology to illegally obtain and analyze user data for commercial purposes or other improper ends. The storage and management of data also face security risks. If the data center is attacked, a large amount of user data may be leaked, causing serious losses to users.

2.3 Shortage of talents

To enable the new media industry to achieve high-quality development through artificial intelligence, it is necessary to have a combination of talents who are both proficient in artificial intelligence technology and understand the characteristics of the new media industry. However, such talents are in short supply at present. The training of talents in related majors in universities cannot fully meet the market demand. The curriculum design and teaching content are not in line with practical applications; the attractiveness of new media enterprises to artificial intelligence talents is relatively limited, making it difficult to attract and retain outstanding talents. This has led to a dilemma of insufficient talent supply in the new media industry when applying artificial intelligence technology.

3 Paths for the high-quality development of artificial intelligence empowering the new media industry

3.1 Strengthening technological integration and innovation

To achieve high-quality development of the new media industry through artificial intelligence, it is necessary to strengthen technological integration and innovation. We should promote the deep integration of artificial intelligence technology with the new media industry, applying technologies such as natural language processing and computer vision to all aspects of new media, achieving intelligent upgrades in content creation, dissemination, and services. We should encourage interdisciplinary and cross-field technological innovation, combining technologies such as big data, cloud computing, and blockchain to provide more comprehensive and efficient technical support for the development of the new media industry. For example, using blockchain technology can achieve copyright protection and traceability for new media content, improving the security and credibility of the content.

3.2 Building a data ecosystem

Data is the foundation for the development of artificial intelligence. The new media industry has a large amount of data resources. Therefore, it is necessary to build a complete data ecosystem to achieve effective integration and sharing of data. New media enterprises can strengthen data cooperation with other industries, expand data sources, and enrich data types. We should establish a sound data management and security guarantee mechanism to ensure the security and privacy of data. We can also use artificial intelligence technology to conduct in-depth mining and analysis of data, extracting valuable information to support the decision-making and development of the new media industry.

3.3 Cultivating composite talents

Cultivating composite talents is the key to promoting the high-quality development of the new media industry through artificial intelligence. Universities and vocational schools should strengthen the construction of related majors, optimize the curriculum design, and integrate artificial intelligence technology and new media professional knowledge organically, cultivating composite talents who understand both technology and business. New media enterprises should strengthen cooperation with universities, establish internship bases and industry-university-research cooperation platforms to provide practical opportunities for students and improve their practical operation capabilities. Enterprises can also enhance employees' artificial intelligence application capabilities through internal training, talent introduction, etc.

4 Countermeasures for the high-quality development of artificial intelligence empowering the new media industry

4.1 Policy support and guidance

The government should introduce relevant policies to support and guide the application and development of artificial intelligence in the new media industry. For example, providing financial subsidies and tax incentives to encourage new media enterprises to increase investment

in the research and application of artificial intelligence technology. Strengthen the supervision of the application of artificial intelligence technology in the new media industry, formulate relevant laws and regulations and industry standards to regulate market order and protect the legitimate rights and interests of users. The government can also organize demonstration projects for the integration and development of artificial intelligence and the new media industry, exerting a leading role and promoting the overall development of the industry.

4.2 Industry collaboration

The new media industry should strengthen collaborative cooperation to form a synergy for industry development. Enterprises can carry out technological cooperation, data sharing, and business collaboration, jointly promoting the application and development of artificial intelligence in the new media industry. Industry associations can play the role of a bridge and a link, organizing activities such as technical exchanges, talent training, and standard formulation to promote the standardized and standardized development of the industry. The new media industry can also strengthen cooperation with research institutions and universities, jointly conducting technological research and innovation to improve the technical level and innovation ability of the industry.

4.3 Attention to ethical and moral issues

During the process of enabling the new media industry to develop with the empowerment of artificial intelligence, it is necessary to pay high attention to ethical and moral issues. The application of artificial intelligence may bring some ethical and social problems, such as the spread of false information and algorithm discrimination. Therefore, new media enterprises and practitioners should establish correct values and ethics, strengthen ethical review and supervision of artificial intelligence technology. They should also educate and guide users, improve users' information discrimination ability and self-protection awareness, and jointly create a healthy and harmonious new media ecological environment.

5 Conclusion

Artificial intelligence has brought new opportunities and challenges to the high-quality development of the new media industry. By analyzing the current application status, problems faced, development paths and countermeasures of artificial intelligence in the new media industry, we can see that to achieve the high-quality development of the new media industry through the empowerment of artificial intelligence, the efforts of the government, enterprises, universities and society are needed. The government should provide policy support and guidance to create a favorable development environment; enterprises should strengthen technological innovation and talent cultivation to enhance their competitiveness; universities should cultivate interdisciplinary talents to provide intellectual support for industrial development; all sectors of society should pay attention to ethical and moral issues and jointly promote the sustainable and high-quality development of the new media industry with the assistance of artificial intelligence.

In the future, as the artificial intelligence technology continues to progress and its application deepens, the new media industry will have a broader development prospect. We have reason to believe that by reasonably utilizing artificial intelligence technology, the new media industry will achieve a qualitative leap in content creation, dissemination and services, providing people with more high-quality and rich information and cultural products, and becoming an important force promoting social development and progress.

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Author Profile: Lu Peng (1987.2.9 -) Male, Han ethnicity, native place: Nan Gong, Hebei Province, Education: Bachelor's degree, Professional title: Senior Engineer, Research Direction: New Media, Merged Media, Media and Artificial Intelligence