Original Research Article

Research on Economic and Legal Regulation of Artificial Intelligence in the Global Digital Context

ISSN: 2661-4014

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Abstract: The improvement of artificial intelligence economic regulations under the global digital background is the foundation for promoting the development of artificial intelligence, and it is also an important way to promote economic development. Because artificial intelligence develops rapidly under the global digital background, it is widely used in various industries and fields, especially in the economic field. The application of artificial intelligence can screen accurate user data, store user information, record user behavior, and promote economic development. However, there is a risk of data leakage or security risks of data abuse in the practical application of artificial intelligence, which seriously infringes on users' privacy and has a great impact on economic development. Therefore, in order to cope with the impact of artificial intelligence economy under the development of globalization and to ensure that artificial intelligence plays a prominent role and advantage in economic development, this article will study the regulatory system of artificial intelligence economy under the global digital background.

Keywords: Global Digitalization; artificial intelligence; economic development improve research

1. Introduction

Artificial intelligence plays a profound role and significance in the economic field, but at present, there are still phenomena of incomplete laws and regulations in the application of artificial intelligence in the economic field. This phenomenon seriously affects the role of artificial intelligence in economic development. Therefore, in order to fully leverage the advantages and functions of artificial intelligence to promote economic development, it is necessary to improve economic regulations and systems, avoid non-standard and unreasonable behaviors in the application of artificial intelligence in the economic field, create a good environment for the application of artificial intelligence in the economic field, and promote economic development and reform.

2. The Significance of Research on Artificial Intelligence Economic Regulations and Systems in the Context of Global Digitization

2.1. Ensuring Data Security and Promoting the Scientific Use of Artificial Intelligence

The research on legal and regulatory systems related to artificial intelligence in the context of global digitization can ensure data security and create a favorable environment for the scientific and effective use of artificial intelligence. Because artificial intelligence can record user data and behavior, or analyze economic development and patterns, in order to obtain accurate data, provide targeted services to screen high-quality customers, and promote economic development. However, artificial intelligence is prone to data leakage or the inability to protect user privacy data during use. However, through the improvement and research of economic regulations and systems, scientific usage plans can be developed, such as clarifying the application of artificial intelligence, clarifying data storage and management systems, and establishing corresponding reward and punishment systems. Through this approach, the application of artificial intelligence in the economic

field can be realized, protecting user privacy data while promoting economic development. In addition, the research on artificial intelligence economic regulations and systems in the context of global digitalization is a reflection of responding to global digital development. As the application of artificial intelligence expands in the future and its functions become more complete, the improvement of economic regulations and systems under artificial intelligence can respond to the trend of global digital development. Therefore, the research on artificial intelligence economic regulations and systems in the context of global digital development is of great significance.

ISSN: 2661-4014

2.2. Play the Role of Supervision and Management to Stabilize the Economic Market

The research on artificial intelligence economic regulations and systems is an important way to play a supervisory and management role, and it is also the foundation for stabilizing the economic market, because artificial intelligence has been applied to various fields in economic development, such as banks, securities and other enterprises. Artificial intelligence is widely used, greatly improving work efficiency and providing better services to customers. However, in the process of using artificial intelligence, there are problems such as non-standard operation and incomplete laws and regulations, which seriously affect the quality and efficiency of AI applications, and even have a certain impact on the economic market, causing an increase in unstable factors in the economic market. However, research on laws and regulations related to artificial intelligence can effectively solve this problem. For example, research on laws and regulations related to artificial intelligence can clarify the fields, goals, and processes of its application, achieve supervision and management of artificial intelligence from various aspects, avoid problems caused by unscientific application of artificial intelligence, ensure stable development of the economic market, optimize the application methods of artificial intelligence in economic development, and respond to the global digital background of artificial intelligence applications.

2.3. Improving Legal and Regulatory Systems to Respond to Digital Development

Improve the legal and regulatory system, create a favorable environment for the application of artificial intelligence in the economic field, and lay the foundation for global digital development. In the future, the application of artificial intelligence will become more comprehensive and its functions will be diversified. To ensure the application of artificial intelligence in the economic field, it is necessary to improve corresponding legal and regulatory systems, such as clarifying the conditions and processes of artificial intelligence application through the improvement of economic regulatory systems, in order to protect user data, economic information, and other content, effectively avoid the phenomenon of non-standard use of artificial intelligence, promote economic development through the advantages and functions of artificial intelligence, and respond to the development of digital globalization.

3. The Problems Encountered in the Development of Artificial Intelligence Under the Global Digital Background

3.1. Data Security Cannot be Guaranteed

One of the problems encountered in the application of artificial intelligence in the economic field is firstly the issue of data security. For example, the process of collecting user data and analyzing user information by artificial intelligence is prone to leakage, which seriously affects the application of artificial intelligence in the economic field. In addition, some staff members have low professional ethics and poor confidentiality

awareness when using artificial intelligence technology, so they are unable to save user data. In addition, the imperfect regulatory legal system related to artificial intelligence has led to the hidden danger of data leakage in the actual use of artificial intelligence, and even seriously affects the development of the economic field, making it impossible to fully utilize the advantages of artificial intelligence to play a positive role in economic development.

ISSN: 2661-4014

3.2. The Problem of Abuse of Artificial Intelligence Technology

The problem of abuse of artificial intelligence technology is also one of the common issues in the development of artificial intelligence applications in the current economic field. For example, some work enterprises involve multiple fields when using artificial intelligence technology, or use artificial intelligence to analyze user behavior, habits, and financial information, which belong to customer privacy information. Using artificial intelligence technology to analyze these user information violates user rights and illegally collects user data. In addition, with the expansion of artificial intelligence application fields, the regulation of artificial intelligence applications requires continuous innovation. Conversely, artificial intelligence technology may even infringe on user privacy and pose certain security risks to users. Therefore, it is highly necessary to improve the laws and regulations of artificial intelligence economy in the context of global digitization.

4. Strategies for Improving Laws and Regulations on Artificial Intelligence Economy under the Global Digital Background

4.1. Strengthen the Training of Artificial Intelligence users to Enhance Their Literacy

Strengthen the training of personnel using artificial intelligence and improve their professional ethics, so that the application of artificial intelligence in the economic field can achieve outstanding results and promote the construction of artificial intelligence economic regulations. In addition, in the context of global digitization, the application of artificial intelligence in economic regulations must improve the literacy of staff. Only by enhancing the literacy of staff can we cope with the global digital development and promote the improvement of artificial intelligence economic regulations. For example, training can be provided to units and individuals who use artificial intelligence, explaining the legal and regulatory knowledge of artificial intelligence during the training process, or providing training and education through practical application cases, so that staff can deeply feel the application and role of artificial intelligence in the economic field, understand more relevant legal and regulatory knowledge and information, comply with relevant regulations in their work, scientifically use artificial intelligence technology to promote economic development, and respond to global digital development trends. In addition, enterprises and individuals should have a sense of self-learning, such as using their spare time to research the application methods of artificial intelligence, the technology of using artificial intelligence, and relevant legal and regulatory requirements, in order to improve their work literacy, achieve better results in their work, and leverage the role of artificial intelligence to enhance work efficiency and quality. In the context of global digital development in the future, they can also improve their work abilities and prepare for the development of digital globalization.

4.2. Clarify the Standardized Usage Methods in the Field of Artificial Intelligence Applications

Clarify the norms and methods of using artificial intelligence in the economic field, avoid the misuse or non-standard use of artificial intelligence, and ensure the scientific use of artificial intelligence in the economic field. In addition, under the background of global digital development, artificial intelligence has a wide range of applications. Without clear usage norms and domains, it is easy to lead to abuse, resulting in user data leakage and infringement of user privacy. Therefore, research on the economic and legal regulation of artificial intelligence in the context of global digitalization needs to clarify the usage domains and standardize usage methods. For example, when artificial intelligence is applied in the economic field, it can be used in facial recognition to transmit the data collected by facial recognition to data centers for comparison. Alternatively, the application of artificial intelligence in the economic field can be carried out in the analysis of user behavior habits, such as analyzing user consumption habits, user consumption records, and other data. Of course, user authorization is required when analyzing user behavior and data, and authorization operations can be carried out at the corresponding APP interface to ensure the standardized use of artificial intelligence, avoid data leakage and abuse of artificial intelligence technology during use, and leverage the auxiliary role and advantages of artificial intelligence to promote the construction of artificial intelligence regulations and systems.

ISSN: 2661-4014

4.3. Improve Artificial Intelligence Supervision to Ensure User Information Security

Improving the regulation of artificial intelligence and ensuring the security of user data and information is an important way to improve the economic regulations of artificial intelligence. By improving the regulation of artificial intelligence and gaining a comprehensive understanding of its data storage and users' professional skills, the misuse and data leakage of artificial intelligence can be avoided. In addition, the fundamental purpose of artificial intelligence applications is to assist in improving work quality. Therefore, the use of artificial intelligence technology in the economic field requires supervision of various aspects, such as the goals of enterprises using artificial intelligence, or the process and methods of data storage when enterprises use artificial intelligence technology, in order to ensure the security of user data. In addition, when it comes to user privacy, the data collected by artificial intelligence needs to be encrypted, and the use of artificial intelligence also needs to be deeply regulated. This way, the use of artificial intelligence can be more comprehensively regulated, changing the problems that arise in the use of artificial intelligence, creating good conditions for the application of artificial intelligence in the economic field, responding to global digital development, and improving the legal and regulatory systems for the use of artificial intelligence in the economy.

4.4. Regularly Inspect and Summarize the Application of Artificial Intelligence

Regular inspections of the application of artificial intelligence can enable enterprises to standardize their operations when using it, avoid the problem of abuse of artificial intelligence in the economic field, and enhance their sense of responsibility in applying artificial intelligence. Over time, this can help enterprises develop good habits of applying artificial intelligence technology. Especially in the current digital context, the application of artificial intelligence in the economic field plays an important role in economic development. More and more enterprises have recognized the advantages of artificial intelligence applications. However, the relevant laws and regulations for artificial intelligence applications are not perfect, so some enterprises have encountered problems of abuse and data leakage during application. To solve this problem and improve the economic regulatory system, it is necessary to conduct regular inspections of the application of artificial intelligence. Through inspections, deficiencies and problems in the application of artificial intelligence in the economic field can be discovered in a timely manner, and problems can be solved in a timely manner. This creates a good environment for the application of artificial intelligence in the economic field, leverages the advantages of artificial intelligence to

promote economic development, improves the economic regulatory system, and promotes the construction of the economic regulatory system.

ISSN: 2661-4014

4.5. Enhance the Information Security Awareness and Skills of Staff

Enhance the information security awareness of staff, ensure information security when using artificial intelligence in work, and reduce the hidden risks of information leakage when using artificial intelligence. Especially in the context of global digital development, personal information security is a key focus in the research of artificial intelligence economic regulations and systems. Therefore, the application of artificial intelligence in the economic field must enhance the information security awareness of workers, so that they can keep information confidential when using artificial intelligence technology, ensure user information security, and leverage the advantages of artificial intelligence to promote economic development and the improvement and construction of economic regulations. For example, an exam can be conducted for staff members, covering the norms and skills of using artificial intelligence, and mastering the level of staff members' use of artificial intelligence technology. Alternatively, it can be explained how data encryption is used in the use of artificial intelligence to enhance the professional competence of workers. Through this approach, the professional abilities of workers can be improved, and good results can be achieved when using artificial intelligence to carry out work. In response to the research and construction of artificial intelligence economic regulations under the global digitalization background, it can play a positive role in China's economic development, establish a modern team with relatively low professional competence, flexibly use artificial intelligence in future economic development, improve the work level of workers, and lay a solid foundation for their future career development.

4.6. Exploring New Methods and Application Modes of Artificial Intelligence

The research on artificial intelligence economic regulations and systems needs to be carried out in practice, so in the context of global digitalization, the research on artificial intelligence economic regulations and systems needs continuous exploration and practice, optimizing economic regulations and systems in practice, while expanding the channels and fields of artificial intelligence applications in exploration, in order to cope with global digital development. For example, in the economic field, the application of artificial intelligence can be expanded, such as applying artificial intelligence in analyzing customer behavior, or using artificial intelligence in collecting user information, etc. Through the expansion of artificial intelligence application fields, economic development can be promoted, and accurate services can be better provided to customers. At the same time, legal and regulatory systems can be improved in the application, promoting the construction of artificial intelligence economic regulations under the global digital background, allowing artificial intelligence to play a greater role in the economic field, serving more customers well, improving service accuracy, promoting economic development, realizing the joint development of artificial intelligence development and economic regulatory system research, solving the problem of imperfect and unscientific artificial intelligence economic regulatory systems in the past, and playing a positive role in China's overall economic development and digital economic construction. The sentence is:, Fully leverage the value of artificial intelligence to innovate work concepts and methods in the economic field.

5. Conclusion

In summary, the research on the economic regulations and systems of artificial intelligence in the context of global digitization has promoted the healthy development of the economy, leveraged the advantages and roles

of artificial intelligence, and prepared for economic reform in the context of global digitization. Therefore, in the process of using artificial intelligence, it is necessary to do a good job in supervision, strengthen the training of staff, regularly summarize work, and so on, in order to achieve effective application of artificial intelligence in the economic field, promote economic development and reform, improve artificial intelligence application solutions, ensure user data security, and provide more accurate services to customers, thus responding to the trend of global economic development, enhancing competitiveness and service capabilities, and building a digital and intelligent economic development model.

ISSN: 2661-4014

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References

- [1] The Digital Transformation of Vocational Education under the Background of Promoting Early Childhood Artificial Intelligence: A Seminar on High Quality Development of Vocational Education and Digital Course Presentation was held at Shenzhen Vocational and Technical College Journal of Shenzhen Vocational and Technical College, 2019, Issue 5
- [2] Zhan Junhong, Feng Guang. Research on the Construction of Financial Informatization in Universities under the Background of Digital Campus [J]. Electronic Technology and Software Engineering. 2021, Issue 008
- [3] Ma Danlu, Ding Lijiang. Reflections and Practices on the Construction of Financial Informatization Control System in Aerospace Enterprises under the Background of Digital Development [J]. Chinese Chief Accountant. 2021, Issue 011
- [4] Xue Jianghong. Application of Artificial Intelligence Technology in Enterprise Informatization Financial Management Review of "Research on Financial Management from the Perspective of Artificial Intelligence" [J]. Business Economics Research. 2023, Issue 7
- [5] Joanna, Li Ruke, Song Dexia. Construction of Financial Informatization Management Mode under the Background of Digital Campus [J]. Caixun. 2016, Issue 017