Analysis on the Application of Cause Intelligence Financial Management System Based on Artificial Intelligence Environment

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Abstract. In recent years, artificial intelligence has made great progress in the field of science and technology, and has played a substantial role in the development of real life. At present, China's financial management system is still in the basic stage, mainly relying on manual work, financial software informatization has achieved results, but the promotion of intelligence is relatively slow, cannot provide good prediction and decision-making scheme for people. This paper analyzes the current situation of the application of artificial intelligence technology in intelligent financial management system, and puts forward the application analysis of the cause intelligent financial management system based on the artificial intelligence environment. In this paper, through the investigation and analysis of 220 financial personnel and system R & D personnel, as well as the comparative analysis of the specialization, rationalization and intellectualization of the financial management system after the application of artificial intelligence, and the discussion and analysis of the results, put forward the application advantages of artificial intelligence in the financial management system, which provides guarantee for the development of intelligent financial management system. The research in this paper is of great significance to the further integration and development of the two, to find problems and to put forward constructive suggestions on the application of artificial intelligence technology in the cause intelligent financial management system.

Keywords: Artificial Intelligence; Financial Management; Management System; Risk Control

1. Introduction
Finance is the lifeblood of an enterprise, which is of great significance to the healthy development of an enterprise. This paper discusses the improvement of enterprise financial management system, which can help enterprises reduce operating costs, improve the utilization efficiency of assets, and improve the weak links of enterprise management [1-3]. However, in addition to optimizing and improving enterprise financial management from the system level, financial management informatization is also an important way for enterprises to strengthen financial management. As an important part of enterprise management, it also has a lot of space in management informatization [4-5]. Through the way of financial management informatization, enterprises can create a more perfect
financial operation environment for enterprises, standardize the behavior of financial personnel, and realize the transparency of financial information, which has become an important trend of enterprise financial management in the future.

Since the last century, computer technology has not only been well developed in some enterprises, but also been more mature in the mechanical manufacturing industry [6-7]. The introduction of artificial intelligence technology into the financial management of modern enterprises can undoubtedly greatly improve the efficiency and quality of financial work, at the same time, it can also realize the transparency and standardization of financial work, further expand the scope of financial functions, and enhance the value of enterprise financial work [8-10].

This paper studies the application of artificial intelligence in the cause intelligence financial management system, analyzes the actual situation of the influence of artificial intelligence on the financial management system, and concludes that the application of artificial intelligence in the cause intelligence financial management system is still deficient. This paper establishes, based on the artificial intelligence environment causes intelligent financial management system application analysis. In the research, according to the actual situation of the financial cause management system, the application of artificial intelligence is optimized. The effective combination of the two can improve the enterprise efficiency. Through the investigation and analysis of various data of artificial intelligence, this paper believes that the use of artificial intelligence is conducive to the development of cause intelligence financial management system, and provides technical support for the cause of intelligent financial management system, so as to achieve win-win cooperation between both sides.

2. Artificial Intelligence Technology and Intelligent Financial System

2.1. Artificial Intelligence Technology
Purpose of artificial intelligence is to have the ability of independent thinking like human beings, to perceive the surrounding environment and make feedback. At present, at the micro level, it is used in translation, speech recognition, image recognition and other fields. At the macro level, the artificial intelligence system has replaced a large number of human repetitive labor, improved the utilization efficiency of social resources, and strengthened the effective allocation of social resources. Artificial intelligence can simulate human behavior and thinking. According to their autonomous learning and judgment ability, the development of artificial intelligence can be divided into three levels: the first level is weak artificial intelligence, the second level is strong artificial intelligence, and the third level is super artificial intelligence. At present, the research level of artificial intelligence in the world is still at the first level.

After years of development, artificial intelligence based on neural network algorithm is in the deep learning stage, aiming to complete the system improvement through large-scale training. In addition, the error rate of speech recognition is greatly reduced, and most input methods can convert speech into text, such as wechat speech conversion text and translation. Image processing technology has been widely used in medical and security fields. In the medical field, artificial intelligence is applied in the medical field at the technical level, which can help doctors make accurate diagnosis.

2.2. Intelligent Financial System
What is intelligent finance? There is no authoritative and unified definition in academia. This paper defines the mode of intelligent financial management based on the concept of intelligent financial management. With the help of financial experts and intelligent information technology, through human-computer interaction, the whole process of enterprise business activities, financial accounting activities and management accounting activities is analyzed and judged, forming strategic decisions, and then completing the complex financial activities of enterprises. Intelligent finance has brought about changes in the field of accounting, reduced the distortion of accounting information, improved the accounting efficiency, reconstructed the accounting process, reduced the cost, and effectively promoted the financial transformation of enterprises.
3. Investigation and Analysis of the Application of Artificial Intelligence in Financial Management System

With the advent of the era of big data, the development of information technology is changing with each passing day. In the current background of artificial intelligence, intelligent finance can be summarized as multidimensional integration and analysis of enterprise financial data through data warehouse, data mining and other related technologies, so as to realize the economic value of data. Artificial intelligence promotes the repositioning of financial management function and changes from simple accounting function to intelligent financial management function structure: enterprise financial management function, professional financial management function, intelligent financial management function, etc.

In the research and analysis, this paper adopts two ways to investigate and study, which are questionnaire and sampling survey. 220 financial personnel and system R & D personnel were selected as the survey samples. In the process of investigation, this paper found that more than 90% of financial personnel and financial system R & D personnel think that artificial intelligence can promote financial management system. In this survey, we divided all the subjects into two groups by category. One group is the financial personnel, the other group is the system R & D personnel, the role of artificial intelligence in the financial management system is analyzed. The results are shown in Table 1. Based on the analysis of the two groups of survey results, it is concluded that artificial intelligence improves the business level and quality of financial management system, and plays an important role in financial management system.

Table 1. Investigation and analysis of the application of artificial intelligence in intelligent financial management system

| Investigation items         | Financial staff (%) | Financial system R & D personnel (%) |
|----------------------------|---------------------|-------------------------------------|
| It has a promoting effect   | 91                  | 93                                  |
| It doesn't work             | 4                   | 3                                   |
| No effect                   | 5                   | 4                                   |
| Hope to increase promotion efforts | 93            | 96                                  |

4. Discussion

4.1. Research on the Construction of Intelligent Financial Management System
4.1.1. Intelligent financial information technology

Intelligent finance needs to cooperate with financial experts by intelligent information technology. Intelligent identification system, data warehouse and data mining system, cloud computing system and intelligent engine system are essential. The intelligent recognition system uses OCR scanning image recognition, intelligent language seedlings and other information technologies to intelligently perceive enterprise data and identify enterprise environment; data warehouse and data mining system integrate data resources, sort out and summarize, and facilitate big data mining and analysis. In the face of various rapid development of intelligent financial information technology, some data show that among the intelligent information technologies used by Chinese enterprises, OCR scanning image recognition and RPA operation automation account for the highest proportion.

4.1.2. Intelligent financial Internet platform

Intelligent financial Internet platform extends financial management to the front end of business and participates in the front-end cost control financial system front-end service center. The ten-thousand-yuan intelligent financial interconnection platform includes external suppliers, customers, retailers, industrial and commercial taxation, etc. the remaining 10000 platforms are centrally configured with the resources of various departments, head offices and branches of the enterprise. Platforms are built
between external data and internal data to realize data interconnection and directly collect and process business data. This kind of end-to-end interconnection enables enterprises to integrate capital flow and management flow into one in the transaction link, and carry out at the same time, which closely integrates the two major processes of enterprise operation and greatly improves the work efficiency.

4.1.3. Intelligent financial accounting platform
Intelligent financial accounting platform is based on the intelligent financial Internet platform and centered on the center. Through the intelligent accounting rules, the business data of the front desk can be identified and automatically transferred to the background to form financial accounting data, so as to realize intelligent financial accounting and release financial productivity. From accounting to management accounting and strategic accounting is an early intelligent financial system. Intelligent financial accounting platform reasonably integrates business process, accounting process and management process in enterprise operation, establishes information processing center integrating industry and finance, reconstructs traditional financial processing process, and maximizes data sharing value.

4.1.4. Intelligent financing platform
Intelligent financial management platform is based on intelligent financial accounting platform, as the center of background processing. It has evolved from dealing with transaction activities to dealing with more high-value management accounting activities. In the medium term, it is an intelligent financial system. The intelligent financial management platform makes full use of the flexibility of big data and artificial intelligence, which can maximize the mining of enterprise demand data information and provide intelligent support for the decision-making of background managers.

From the analysis results of Figure 1, it can be seen that the specialization, rationalization and intellectualization of intelligent financial management system are gradually improved with the use of artificial intelligence. The role of artificial intelligence in intelligent financial management system can not only improve the work efficiency, but also improve the accuracy of data. Some leaders of financial management system don't know enough about artificial intelligence, and they don't pay enough attention to it in the comprehensive application, which limits the development of intelligent financial management system.

Figure 1. Comparative analysis of specialization, rationalization and intellectualization of financial management system after using artificial intelligence
In order to further analyze the application of artificial intelligence in financial management system, the results are shown in Figure 2. As can be seen from Figure 2, the satisfaction of intelligent financial management system is significantly higher than that of traditional financial system mode. The traditional financial system model has limited access to information, involving a small scope, and the effect is not ideal. After the application of intelligent financial management system, the result credibility of financial management system is improved, and the quality of business processing is also improved. Through the investigation and analysis, it is shown that the advantages and disadvantages of artificial intelligence in the application of financial management system are greater than the disadvantages. It is considered that it is very important to popularize artificial intelligence in order to achieve good results in financial management system.

![Figure 2](image_url)

**Figure 2.** Data survey of traditional financial management mode and intelligent financial management mode

4.2. Application Advantages of Artificial Intelligence Technology in Intelligent Financial Management System

4.2.1. In the past, when we deal with financial information, we mainly relied on professional practitioners to calculate. In this process, it is easy to happen financial fraud, calculation error or fraud. Of course, human errors are the most common. This kind of human error makes the previous financial information processing lack of necessary credibility. The popularization of artificial intelligence makes the manual operation less and less, and relies more on the accurate calculation of the computer, which greatly reduces the probability of possible errors, further improves the quality of financial information processing, and improves the information processing ability of enterprises.

4.2.2. Improvement of risk early warning ability. As long as the enterprise is in operation, it is difficult to avoid the existing financial risks. Enterprise financial management should have a strong sense of risk prevention and ability. If the enterprise does not have a perfect risk aversion or risk early warning mechanism, it will pose a potential threat to the enterprise. However, ordinary people cannot always find hidden risks. The emergence of artificial intelligence technology can realize the top-down automatic self-examination and alleviate financial problems. In addition, the risk model can also be
used to prevent potential risks and provide effective guarantee for the benign operation and long-term development of enterprises.

4.2.3. Improve the work efficiency of financial management personnel. The introduction of artificial intelligence technology optimizes the financial processing process, reduces the error caused by long-term work, reduces the work intensity of financial management personnel, and reduces the work cost. The spare time of financial management personnel can be used to expand new business direction and maximize work efficiency. In the centralized processing of report data, professional data processing reduces the influence of improper operation, reduces the error rate, increases the credibility of processing results, and improves the quality of business processing.

5. Conclusions

Based on the application of artificial intelligence in marketing, this paper takes the application of artificial intelligence in financial management system as the main line of research. After research, this paper considers that artificial intelligence is an important part of intelligent financial management. Through the investigation and analysis of different groups involved in financial management, we get their satisfaction with the application of artificial intelligence in financial management system. In recent years, artificial intelligence technology has been developing rapidly; breaking through the technical difficulties and key points, and now it is at the advanced level at home and abroad. Through data analysis, it can be seen that artificial intelligence breaks the shackles of traditional financial management mode, has more opportunities to obtain intelligent data than the traditional mode, and enriches the working mode of financial management system, making the financial management system get unprecedented development. From the research and analysis results of this paper, in order to make full use of the advantages of artificial intelligence technology in the financial management system, we must combine the financial management system with the actual situation of artificial intelligence technology, take the actual situation of the financial management system as the starting point, pay attention to the scientific introduction, effectively formulate the development plan of the financial management system, and ensure the healthy development of the financial management system. This research has achieved ideal results and made a certain contribution to the strategy research of exerting the advantages of artificial intelligence in financial management system.

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