

Financial Investment and Financial Decision-making Depth Analysis under the Guidance of Financial Technology and Digitalization

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Abstract: In the current era of ever-changing science and technology, financial science and technology and digitization are profoundly changing the forms and ways of financial investment and financial decision-making with unprecedented strength. This paper comprehensively and deeply discusses the extensive and far-reaching influence of financial science and technology and digitalization on financial investment and financial decision-making, and analyzes in detail the many valuable opportunities and severe challenges that can not be ignored. It meticulously puts forward a series of feasible strategies to optimize financial investment and financial decision-making under this dynamic and changing background.

Keywords: financial technology and digitalization, financial investment, decision-making depth

1. Introduction

In this rapidly changing digital age, the vigorous rise of financial technology has brought earth-shaking changes to the financial field. The wide application of cutting-edge technologies such as big data, artificial intelligence and blockchain covered by financial technology makes financial investment and financial decision-making more efficient, accurate and intelligent. With the continuous advancement of the digitization process[1-2] the financial market has become more transparent, clear, open, inclusive and easy to use, providing investors and all kinds of enterprises with rich and colorful choices and unprecedented development opportunities[3-4].

2. The influence of Financial Technology and Digitalization on Financial Investment

2.1 Extensive Expansions of Investment Channels

The continuous development of financial technology has opened up a variety of investment channels for investors. Investors can now invest not only through traditional financial institutions, but also through new channels such as convenient online platforms and feature-rich mobile applications. These innovative investment platforms provide investors with a wide range of investment products and practical tools[5], covering stocks, funds, bonds, futures and many other fields. it fully meets the individual needs of different investors in terms of risk preference, return expectation and investment duration. At the same time, with its excellent performance, the highly digital trading system makes the investment transaction more convenient, fast, rapid and efficient, and greatly reduces the costs generated in the transaction process.

2.2 Highly Intelligent Investment Decision

Big data and the ingenious application of artificial intelligence technology provide investors with extremely accurate and valuable investment analysis and strong decision support. Through in-depth mining and comprehensive analysis of massive data, investors can obtain more comprehensive, accurate and detailed market information, so that they can make investment decisions more wisely and rationally. In addition, the emergence of innovative financial technology products such as intelligent investment has also tailored personalized investment suggestions and comprehensive investment plans for investors.

2.3 Significant Strengthening of Risk Management

With the integration of financial technology and digitization, risk management has risen to a new level that is more scientific, effective and reliable. With the help of big data analysis methods and advanced risk model construction methods, investors can evaluate the investment risk more accurately and formulate a more reasonable and feasible risk control strategy. At the same time, the innovative application of blockchain technology creates a more secure, stable and reliable environment for financial transactions, which significantly reduces the potential risks in the transaction process.

3. The influence of Financial Technology and Digitalization on Financial decisionmaking

3.1 Accurate Acquisition and In-depth Analysis of Financial Data

The digital financial system has brought unprecedented convenience for enterprises, so that they can obtain financial data more timely, accurately and comprehensively. Through the use of big data analysis and advanced data mining technology, enterprises can have an in-depth and detailed understanding of their own financial situation and business situation, thus providing solid support and basis for financial decision-making.

3.2 Meticulous Management of Budgeting and Cost Control

The wide application of financial technology makes budgeting and cost control more precise and scientific. Enterprises can make full use of data analysis and accurate forecasting model to work out a more scientific, reasonable and feasible budget plan, and can monitor the dynamic changes of cost expenditure in real time, and adjust their business strategies timely and flexibly according to the actual situation.

4. Opportunities and challenges brought by Financial Science and Technology and Digitalization

4.1 Opportunities

(1) Significant improvement in the efficiency and quality of financial services.

The integration of financial technology and digitalization has brought unprecedented breakthroughs to the financial industry and improved the efficiency and quality of financial services by leaps and bounds. Through automated process processing, intelligent customer service and real-time risk assessment, financial institutions can respond to customer needs faster and provide more accurate and personalized financial services. This not only satisfies investors' desire for efficient and convenient financial services, but also makes it possible for enterprises to quickly obtain financial support and risk management programs in the rapidly changing market environment, thus greatly promoting the optimal allocation of financial resources and promoting economic growth.

(2) The powerful driving force of financial innovation.

Financial technology and digitalization have injected a strong driving force into financial innovation, giving birth to a series of novel financial products and service models. For example, the emergence of digital currency has changed the traditional monetary payment methods, and the application of blockchain technology in cross-border payments and securities transactions has improved the transparency and security of transactions. Artificial intelligence-driven investment advisory services provide investors with more targeted investment advice. These innovations not only enrich the diversity of the financial market, but also provide more choices for investors and enterprises, stimulate the vitality of the market, and promote the in-depth development and improvement of the financial market.

(3) Strengthening and optimization of financial supervision.

The development of financial technology and digitalization has brought new means and methods for financial supervision. Big data's analysis and machine learning techniques can help regulators monitor abnormal volatility and potential risks in financial markets more effectively and detect irregularities and market manipulation in real time. At the same time, the digital regulatory report and information sharing platform improves the transparency and efficiency of supervision, enhances the stability and security of the financial market, and creates a good environment for the healthy development of the financial industry.

4.2 Challenges

(1) Severe technical risks and security threats.

With the in-depth development of financial technology and digitization, technical risks and security issues have become increasingly prominent. Security incidents such as data leakage, network attacks and system failures have become major hidden dangers in the financial field. Financial institutions and financial service platforms store a large number of sensitive customer information and financial transaction data. Once these data are leaked or maliciously used, it will bring huge losses to customers and seriously damage the reputation and trust of financial institutions. In addition, the continuous upgrading of the means of cyber attacks poses a serious threat to the stability and security of the financial system, which may lead to serious consequences such as interruption of financial services, capital losses and so on.

(2) Lag and inadaptability of laws and regulations.

The development speed of financial technology and digitalization far exceeds the speed of formulation and updating of laws and regulations, resulting in existing laws and regulations in many aspects difficult to adapt to the new financial business model and technology application. For example, the legal status and regulatory framework of digital currency are not yet clear, the application of blockchain technology in the financial field is lack of unified legal norms, and the legal effect of smart contracts is controversial. The lag of laws and regulations makes financial innovation in the grey area of the law to a certain extent, which not only increases the uncertainty and risk of the financial market, but also brings difficulties to the law enforcement of regulators.

(3) The extreme shortage of compound talents.

The integrated development of financial technology and digitalization requires compound talents who not only have profound financial professional knowledge, but also are proficient in the fields of information technology, data analysis and risk management. However, at present, this kind of talents are extremely scarce in the market, which is difficult to meet the needs of the rapid development of the financial industry. Financial education and vocational training in colleges and universities often lag behind the development of financial science and technology in curriculum and teaching content, which makes it difficult for the trained talents to meet the actual needs of the financial industry. The shortage of talents has become an important factor restricting the development of financial technology and digitalization, increasing the difficulty of financial institutions in technological research and development, business innovation and risk management.

5. Strategies for optimizing financial investment and financial decision-making under the background of financial technology and digitalization

5.1 Vigorously Strengthen Technological Innovation and Application

Unremittingly promote the innovative development of financial science and technology, and increase its application in the field of financial investment and financial decision-making, and constantly improve the intelligent level of financial investment and financial decision-making. At the same time, actively strengthen the research and exploration of emerging technologies, such as quantum computing, biometrics and other cutting-edge technologies with broad application prospects, to inject a continuous and powerful driving force for the sustainable development of the financial field.

5.2 Comprehensively Improve the Laws, Regulations and Supervision System

We will speed up the formulation and improvement of laws and regulations closely related to financial technology and digitization, establish and improve an efficient and authoritative financial supervision system, strengthen omni-directional supervision of the financial market, and effectively guard against all kinds of financial risks. At the same time, we should actively build a scientific and rational mechanism for the supervision of financial science and technology, sandboxie, and make every effort to ensure the stable operation and healthy development of the financial market while encouraging financial innovation.

5.3 Make Every Effort to Train Compound Talents

Attach great importance to the training of financial technology and digital talents, and improve the comprehensive literacy and professional ability of talents in an all-round way. Through a variety of ways, such as rich and varied higher education and well-targeted vocational training, we will carefully cultivate compound high-end talents who are proficient in both financial business and the application of science and technology, so as to provide a solid talent guarantee for the prosperity and development of the financial field.

6. Conclusion

The rapid development of financial technology and digitalization has brought a profound and comprehensive change to financial investment and financial decision-making. Under the background of this era full of opportunities and challenges, investors and enterprises should embrace new technologies with a positive and open mind, make full use of the development opportunities brought about by financial technology and digitization, and continuously optimize financial investment and financial decision-making. strive to improve investment returns and enterprise value. At the same time, the government and regulatory agencies should also earnestly strengthen the effective supervision and scientific guidance of financial technology and digitization, and make every effort to promote the healthy, stable and sustainable development of the financial market.

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