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A Review of Secure Neural Networks and Big Data Mining Applications in Financial Risk Assessment

[1] R. Regin
[2] S. Suman Rajest
[3] Shynu T
[4] Steffi. R

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[1] Assistant Professor, Department of Computer Science and Engineering, SRM Institute of Science and Technology, Ramapuram, India regin12006@yahoo.co.in

[2] Professor, Bharath Institute of Higher Education and Research, Chennai, Tamil Nadu, India

[3] Master of Engineering, Department of Biomedical Engineering, Agni College of Technology, Chennai, Tamil Nadu, India

[4] Assistant Professor, Department of Electronics and Communication, Vins Christian College of Engineering, Tamil Nadu, India

Abstract: The business activities of an enterprise are the unending development of the behaviours of groups, and the financial risks that are formed are a direct result of the business activities of groups constantly evolving. The process of identifying potential financial risks can be viewed as somewhat of a game between those with access to confidential information and those who actively seek it out. Techniques for mining extensive amounts of data, often known as big data mining, have the potential to improve organisational structure, increase managerial efficiency, and dramatically reduce financial risk. However, the traditional enterprise management idea and irrational internal business structures also contribute to some scenarios that are out of sync with the introduction of Big Data Mining technology. This results in some cases where the technology is ineffective. This topic is the starting point for research on an optimization model for the measurement of corporate financial risk that is based on Big Data Mining and secure neural networks. In this article, all internet users are considered to be "sensors" that are placed all over the internet by businesses. In order to train a Backpropagation Neural Network, you must first take a series of identical input samples and the ideal output as training "samples," and then you must introduce the network by a specific training algorithm. This allows the Backpropagation Neural Network to study the "solution," which contains the underlying principles. Establish a threat early warning indicator system, put Big Data Mining into action, assess the results, and publish a risk early warning report to assist enterprise management in making decisions.

Key words: Backpropagation Neural Network, Secure neural network, Neural Network, Financial risks, Big Data Mining.

Introduction

The mining of big data is also referred to as the mining of vast data. Big Data Mining technology in the information age steers the development direction of numerous domains of society, alters the traditional business model of many industries, and has a substantial impact on people's work and lives daily [1]. In this era of Big Data Mining, enterprise managers and financial personnel are not fully aware of the challenges and financial risks that are presented by the new situation [2]. Additionally, they lack the necessary cognition and coping strategies, and their ideology continues to exist within an information-closed environment [3]. The rapidly increasing system complexity and data volume, as well as the rapidly diversified development of the company's operation, both contribute to an increase in the difficulty of risk identification and control [4]. It is required of businesses they continually optimize the management paths and methodologies used for project management [5-12]. This is substantially impacted by the development and deployment of financial sharing service centres in the era of big data mining, particularly the strengthening of company financial risk control [13].

However, even though other countries started developing early warning systems for financial risk before the globe did, there is still a large knowledge gap in this subject [14]. On the one hand, the globe's businesses have been operating within the confines of the planned economic system for a significant amount of time, and the property rights associated with these businesses remain unknown [15-18]. On the other hand, the globe's capital market didn't get started until much later than other countries, the country's system for disclosing and supervising financial data isn't foolproof, and the country's lack of data and information has, to some extent, hampered the development of its early warning research for financial risks [19-22]. When a company is experiencing severe financial difficulties, it will typically display abnormalities in several economic indicators [23]. This aberrant circumstance gives the impression of a rapid shift in time, but in reality, it is a prolonged process of evolution [24]. This approach is being used in an increasing number of world businesses for the management of their financial affairs [25]. As a result, a great number of businesses have decided to diversify, and a great number of retail businesses are aggressively expanding to meet individualized and diversified consumer demand [26-35]. Because of this, the high level of risk that an enterprise takes on in the course of its business activities compels the company to gain an understanding of the financial risks it faces, the characteristics of the risks, and the potential loss outcomes of a terrifying incident [36]. Based on this knowledge, the company must then develop and put into action optimal risk management methods for itself to try to avoid possible adverse consequences, reduce the potential losses it may suffer, and keep its business activities operating normally [37-44].

The evaluation and early warning methods do not provide timely feedback on the shifting trend of business hazards that are generalized from the data [45]. They have not conducted sufficient in-depth research on the possible dangers; thus, they are unable to fulfil the standards of the risk management practice [46]. They will have a significant impact on the sustainable and stable operation of businesses, which will result in damage over the long term [47-51]. The technique of Big Data Mining can improve management efficiency, reduce financial risks, and optimize enterprise architecture [52]. Despite this, some instances are not in line with the wave of Big Data Mining technology [53-66]. This is due to the traditional enterprise management concept as well as the illogical internal structure of businesses [67]. Establishing a reliable dynamic financial risk early warning mechanism and taking corresponding control measures at the initial stage of financial distress is of utmost importance to the enterprise itself, the management authorities, investors, creditors, and other relevant stakeholders as a barometer of the enterprise's production and operation activities [68-81]. This can be done by establishing a financial situation that is a barometer of the enterprise's production and operation activities [82]. In addition, the sensitive financial index data that is represented by the dynamic financial risk early warning model has

the potential to give the regulatory authorities a theoretical basis on which they can enhance rules and regulations and further standardize the world's capital market [83-91].

A great number of researchers have conducted more in-depth studies, the primary focus of which has been on developing new approaches, such as multivariate models, models for discriminant analysis, models for cluster analysis, neural network models, and so on [92]. In recent years, the research that has been conducted on the identification of corporate financial risk has mostly concentrated on the accuracy of model identification and has taken into consideration the influence of nonlinear factors on the identification findings. Using 23 companies as samples, the data from the samples are then separated into categories based on whether or not the company filed for bankruptcy [93-99]. The result demonstrates that the two ratios with the highest discrimination ability of a single financial ratio are net profit/shareholders/equity and shareholders/ equity/liabilities respectively. This is because these ratios compare the amount of net profit to the amount of shareholders' equity [100]. According to the findings of many accounting, ratios are not important when it comes to modeling the financial crisis [101]. However, since certain market-driven variables might influence the likelihood of a company filing for bankruptcy, a logistic regression model consisting of accounting ratios and market-driven variables was developed [102].

When analyzing business financial information, the "comparison method," which includes both vertical and horizontal comparison, is most commonly used. The comparison of enterprises' development orders from the past to the present is what is meant by the term "vertical comparison." The comparison of advanced domestic firms, world-class companies, and industry-leading enterprises is done to determine the gap [103-111]. The information early warning system can collect and analyze abnormal details by analyzing the sensitive points of a potential crisis in enterprises and predict the potential risks in the operation of enterprises, to serve enterprise management decisions and assist enterprises in adjusting their long-term development strategies [112]. This is all part of the process of detecting, tracking, anticipating, and discovering information [113].

When developing the enterprise financial crisis early warning model use the enterprise cash flow index as their primary metric. In addition, the value of a company is calculated as the aggregate of the net present value of the cash flows that will be generated for all stakeholders as a result of the business process of the enterprise [114]. In this study, some different models for enterprise financial risk early warning are compared to one another as well as their respective levels of accuracy in predicting business financial risk early warning [115-121]. The entire financial index evaluation approach, which has been used, has accomplished a very effective early warning effect. This approach primarily takes into account the enterprise's business profitability, capital solvency, growth ability, market expansion ability, and business operating capability [122]. The classification of regional benchmark data sets of credit risk is accomplished by the utilization of integrated neural network technology [123]. In comparison to the more conventional neural network method, the reliability of this approach to credit risk management is established and uses clustering in conjunction with multi-objective evolutionary algorithms to design multi-objective problems for high-dimensional data [124-129]. It also designs corresponding evolutionary algorithms to find the optimal number of clusters and improve the global search ability, as well as a rough set method to predict the financial risks of businesses [130]. This resulted in a significant increase in the speed of data analysis and made it possible to classify and analyze massive amounts of data in a short amount of time and began their investigation from the perspective of the neural network algorithm [131-139]. They utilized an improved BP algorithm to establish an Artificial Neural Network economic forecasting or early warning system. This effectively prevented the network from falling into local minima and improved the convergence speed of the network [140]. The Artificial Neural Network model was utilized to evaluate and address early warning indicators. The application method of the Artificial

Neural Network model in the early warning management indicators of enterprise organizations was illustrated, and this resulted in the achievement of favorable outcomes [141-145].

Even though a large number of businesses are, to some extent, fully aware of the necessity to change their initial financial risk management and control mode and to support the Informa ionization and digitalization of their internal management, a larger number of enterprise financial personnel and even senior management personnel are not ideologically aware of the importance of adopting advanced management concepts. This is even though many businesses are, to some extent, fully aware of the necessity to change their initial financial risk management and control mode [146]. Their management criteria for businesses have mostly remained in line with conventional practices. Enterprise managers can capture the ongoing development trend of records, recognize anomalous situations in companies promptly, and take adequate safeguards to minimize hazards when they use the technology of Big Data Mining for follow-up analysis [147]. When financial personnel has an understanding of the development trend of the industry, they are better able to make timely adjustments, adapt to changing conditions as quickly as possible, and master more advanced data analysis and processing capabilities. This ensures that the progression of financial work is carried out smoothly [148-151]. While the era of big data mining has flipped the usual operating model of many different businesses on its head, the finance department here at our company adheres to a more traditional management style [152]. Even while it affects the fixed notion of managers on an ideological level, it will be difficult to gain mastery through an all-encompassing study for a while, which will undoubtedly result in inconsistencies and inconveniences in the workplace [153-156].

For a considerable amount of time, company information was compiled and evaluated solely through the use of financial accounts, and only a select few individual economic indicators were taken into consideration [157]. Without Big Data Mining, it would have been impossible to establish a logical relationship among the hands, and it would have been impossible to find the hidden inherent risks in sufficient time [158]. In addition, company accountants ought to utilize the network in a manner that is consistent across the board. In the context of cloud accounting, they are unable to offer any possibilities to cybercriminals or other lawless elements that may be present in the network to guarantee the confidentiality of accounting data [159]. Companies must provide their newly hired staff with ongoing training. So that newly hired accountants can have a particular professional concept, the training should include the significance of accounting jobs in businesses as well as the job responsibilities those jobs entail [160]. Additionally, newly hired accountants should be restricted from viewing and copying information that is unrelated to their positions, except for the information they come into contact with. It is vital to strengthen accountants' awareness of information security to manage accounting information in a cloud computing environment [161].

The creation of an early warning model and platform to achieve intelligent risk management. It consists mostly of the alert view module, which summarises and presents the overall alert results of the system [162]. These results include risk alerts of the following four dimensions: the financial management process, accounts, current accounts, and suppliers. Big Data Mining-based financial risk prevention and control has dramatically improved the quality and efficiency of risk control management and achieved "three changes." These changes include the transition from post-inspection to real-time warning in advance; the change from a one-sided spot check to comprehensive screening; and the transition from personal experience dependence to platform skill solidification [163-165]. The updating and optimizing of risks involve making additions, modifications, and deletions to the risks that have been identified. Various approval procedures are established based on the information that is stored, which may include fundamental information as well as alert rules and alert information [166].

Enterprises could see unexpected gains or losses as a result of taking on financial risks. When it comes to a financial crisis, businesses can only work to either stop it from occurring or reduce the amount of

damage it does [167]; In terms of financial risks, businesses have a better chance of achieving returns that are higher than anticipated under particular risk situations if they improve the management of the flow of capital inside the company. However, a crisis in the financial sector is not necessarily the result of financial difficulties [168]. The enterprise has a chance of turning the corner as long as the management authorities have a good sense of threat and sufficient capacity and means to oppose threats [169]. For instance, in a company that has a relatively flawless governance structure, even the controlling shareholder is unable to exploit the holding subsidiaries' assets for free. However, in the world, the funds of listed firms are occupied by the controlling shareholders of those listed companies, which results in significant financial losses for the listed companies. However, human judgment can take into account the intricate internal and external environmental factors that enterprises are confronted with, particularly certain particular factors that are confronted by individual enterprises. This is something that quantitative financial risk identification methods find difficult to accomplish.

The methods of qualitative research concentrate on analyzing problems from the point of view of the "quality" of things, concentrating on the relationship between the causes and effects of things, and gaining an understanding of the fundamental nature of things through the rational examination of their outward manifestations. Quantitative analysis is a process that quantifies the pertinent information and establishes applicable criteria, in contrast to the qualitative analysis method, which frequently results in various analysts arriving at different findings for the same problem. When applied to the same collection of data, one method can only produce one distinct result that is unaffected by the executor. There is a limited amount of published studies on developing dynamic early warning research from the perspective of a comprehensive analysis. On the other hand, early warning of potential financial risks provides a solution to the problem of assessing an organization's entire financial status. Because it only dynamically monitors indicators of cash flow, it is easy to ignore early signs from other economic indicators and miss financial abnormalities because it is limited to monitoring only cash flow indicators. Consequently, using the quantitative analysis approach as the primary body of the research and combining it with the qualitative research method can enable them to learn from each other's strengths, make up for their flaws, and produce the best possible research results. Choosing reliable early-warning indicators is now an essential step in the process of developing a model for the early detection of financial danger. In a broad sense, the early warning index system that was selected for this article is an organic combination of indicators that indicate the current state of the business position of firms in a variety of different aspects.

The neural network is a type of network that is made up of a large number of processing units that are relatively straightforward yet densely interconnected. The Artificial Neural Network model is a new model of artificial intelligence that models the physiological mechanism of the human brain and intelligently analyses information. It is a part of the abstract thinking process that occurs in the human brain. The nerve cell, also known as the processing unit, is the fundamental building block of the neural network. The Backpropagation Neural Network is an alternative to more conventional approaches to the resolution of problems. It is educated to find solutions to issues. The process of training a Backpropagation Neural Network involves using the same series of input examples and ideal outputs as training samples, as well as training the network following a specific training algorithm, to teach the Backpropagation Neural Network the fundamentals of the solution. The processing units are connected forward, but the processing units in the same layer are not connected. As a result, information can only spread in one direction across the system. How the network reacts to any given input from the surrounding environment is determined by the weight vector. Similarly, the network finishes the process of learning by continuously making adjustments to the weights.

The research institute continues to separate the data collected from the research samples into training samples and test samples. First, the data from the training sample set are used to train the algorithm, and then the data from the test set are used to verify the accuracy of the method. In general, the accuracy of

early warning tends to improve as the period of financial risks draws closer. This indicates that the early warning algorithm of financial risks of listed businesses in the chemical manufacturing industry has vital timeliness in anticipating future financial difficulties. The Support Vector Machine model provides the most accurate predictions in the long run. As a result, the timeliness of the samples is necessary for the warning of potential financial risks. The prediction effect is improved when the article is written closer to the year in which the financial risk occurred. The results of the research presented above indicate that the Backpropagation Neural Network model that we constructed for this paper has a satisfactory recognition impact. Following that, this part will provide various methods for improving financial management for businesses that are exposed to financial hazards. On the three-dimensional coordinate chart, the companies that pose potential financial hazards are displayed according to their levels of solvency, turnover, and profitability.

It is clear that the majority of companies that are experiencing financial difficulties have low levels of profit, and it is also clear that the turnover rate of the majority of these companies is terrible; Based on the solvency, it appears that the majority of businesses have an average level of solvency. Consequently, based on these three factors, we can classify these businesses as falling into one of three categories: high earnings are represented by the first category, whereas just medium profits are shown by the other two indicators; The second category denotes great turnover ability, whilst the first and third categories both indicate only mediocre performance; The third category consists of the businesses that are still operating.

Let's say that a company wants to increase the rate at which they turn over its fixed assets. If this is the case, then it should work to improve the management of fixed support to ensure that the investment scale of fixed assets is suitable and that the structure is not unreasonable. The scale is either too high, which results in idle equipment, waste of assets, and reduced efficiency of fixed assets, or the scale is either too small, which results in a small production capacity and the inability to obtain the scale benefit. At the same time, it is necessary to keep fixed assets maintained, updated, and maintained on time. The treatment of fixed assets that have poor technical performance, excessive consumption, and little benefit should be approached with resolve. It is important to invest in fixed assets that have high technological levels, robust production capacities, and increased production quality. In addition, there should be a greater emphasis placed on the maintenance and custody of fixed assets. The behavior of businesses in their production and business activities is what needs to be standardized to fulfill the aim of financial risk prevention and control system design. The goal of enterprise financial risk prevention and control can be accomplished by establishing a system for enterprise financial risk prevention and control, which can boost the effectiveness of behaviors aimed at enterprise risk prevention and control and bring about the desired outcome.

When using the Artificial Neural Network toolbox, there is the particularity that each network training initialization is random, which results in variable weights and thresholds when the evolutionary algorithm optimization is complete. As a consequence of this, the outcomes of each iteration are not always the same. The computer program is executed twenty-three times, and the aggregated and tallied data are then analyzed to minimise the possibility of the experiment. According to the findings of the investigation, the final judgment rate of the financial risk early warning model has the potential to achieve 92.021%. At the same moment, there is often one error in judgment, three errors in judgment when the police status is light, and two errors in judgment when the police status is heavy. More consideration needs to be given to the outcomes of both severe and moderate warnings.

Conclusions

Due to the generalization of the data and the lack of in-depth research on potential risks, the evaluation and early warning methods do not provide timely feedback on the changing trend of business risks. Because of this, the methods are unable to meet the requirements of risk management practice and will

have a serious impact on the sustainable and stable operation of enterprises, which will result in long-term damage. Establishing an efficient dynamic financial risk early warning system and taking corresponding control measures at the initial stage of financial distress is of great significance to the enterprise itself, the management authorities, investors, creditors, and other relevant stakeholders. The financial situation serves as a barometer of the production and operation activities of the enterprise. This topic is the starting point for research on an optimization model for the measurement of corporate financial risk that is based on Big Data Mining and secure neural networks.

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