

Research Article

Research on Performance of Public Welfare Crowdfunding Based on Neural Network Intelligent Model

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From the appearance of entrepreneurial narratives, it communicates the movement of innovatory suggestion and entrepreneurial madness on revenue deed in technology crowdfunding, outsearch the immediate percussion of innovatory hint on financier act, and the moderating sign of entrepreneurial emotion on the relationship between novelty and resources exploit. Through the mode of text-book analysis, the genuine technology design in JD crowdfunding was interested in bearing empiric trial of the mold. Neural networks have large-scale parallel, distributed storage and processing, self-organization, self-adaptation, and self-learning capabilities and are especially suitable for dealing with inaccurate and ambiguous information processing problems that need to consider many factors and conditions at the same time. The empiric arise shows that forward-looking neologism queue indubitably moves financier completion, and primitive neology suggestion negatively pretends resources accomplishment; pierce People's entrepreneurial emotion intensify the dogmatic outcome of incremental neology humor on financier work, but has no momentous regulatory performance on the relationship between fundamental novation cue up and revenue exploit. On this base, a nerve plexure pattern is further fabricated for equal analysis. The characteristic efficiency of retrogradation example and nerval meshwork fashion is amended. In addition, based on the sample data of the Dahuotou fair crowdfunding platform, the indicators of the extended resource evaluation are judged based on the video revenue duration of the design scheme, scheme dynamics, extended scoring, non-hidden technology, and employee inclusiveness. There is an interaction manifestation between video and operant allowance data; the penetration sign of the two logical recession molds is emended than that of the multilayer McCulloch-Pitts neuron mold and the divergent base duty design.

1. Introduction

Here are four force tokens: recompense supported, benefaction supported, honesty supported, and band supported [1]. Among them, recompense-supported crowdfunding is observed to be the most conspicuous and fastest-ontogenesis figure of crowdfunding [2, 3]. Fundraising schemes govern in repay-supported crowdfunding, and most of them are fresh and incomplete products, which are highly innovatory. Entrepreneurial narratives, as the random access memory of financier [4, 5], often exhibit work neologization As the center of the show, to allure possibility investors to bestow. However, enormous emphasis on neologization may not import advantageous resources issue [6–8]. Therefore, it is necessary to carefully meditate the execution of neologism

on financier production in the analogous Tex. [9]. Most of the existing thinking comes from neologisms understood by investors [8, 10], and they make creative suggestions for neologisms in the professional field. According to existent research studies, novelty is lobulose into two importance: Radical neologization and incremental novation [6, 9]. Incremental neologization is a biased melioration of the extend supported on the new technical example and existent erudition to supply newly characteristic or official novelty; unsparing novelty usually supported on novel technological design and inoperation plan, it drifts to make recent indispensably that have not been recognized by consumers [9] and are uniform by information processing system-promote satisfy analysis methods [11]. Entrepreneurship narratives are what entrepreneurs repeat concerning themselves or it is

the clerestory of one's own assembly [4], and it is also a means for the beginne to thoroughly transport the sight [5, 12]. The anapophysis of entrepreneurs issue speech challenge to investors through relation is also mind as a prosecute of persuasiveness [13]. In this projection, investors principally observe two elements: the gratify of the stage itself and the excitable wording of entrepreneurs [5]. Belleflam et al. [3] think that the feeling unfolded by the promoters is very essential for the objective valuation of hap investors. Therefore, the strike of relation on investors is not only definite to the appraise appraisement under the composition of rehearsal intent [4], but also embraces the sensational answer reason by the anger expanded by the statement. Entrepreneurship suffering is a weighty exhibition of its indisputable emotions. This propitious of firm feeling will be understood by stakeholders and subdue their manner [6]. In crowdfunding, entrepreneurial feeling refers to are also fixed in the entrepreneurial garrulous, and the sensational acme of the beginne is transferred to investors in the constitution of speech. In Brie, this bargain engages etymon neology and incremental novelty as free variables, entrepreneurial emotion as a moderating versatile, and resources completion as an issue unsteady, invent a paper design of revenue deed supremacy gearing in the crowdfunding Tex, as shown in Figure 1.

Through the combing and analysis of the told learning on crowdfunding, this covenant relies that there are deficiencies in the prior examination on crowdfunding. First, from the view of the cambist, anterior ponder on the sway constituent of crowdfunding financier have not yet complex the purpose's chief enema methods, outgoing methods, and warranty clauses, as well as the operant separate of the financier entertain and the disclosed calling leave, shelter possession enrollment, and other commission. Most of the data are corroborant contemplation on the supremacy agent of one or some size and have not yet cater the revenue cause with worthy revenue proceed prognosis supported on the energetic element. Second, from the delineation of investors, most of the antecedent contemplation on crowdfunding vestment centralized on the distribution need and vestment conduct of crowdfunding vestment, while the analysis on crowdfunding vestment division verifies has not yet been complex. Third, due to the extensive-stagnant restrictions and restrictions on inn offerings of securities in diversified countries or provinces, there have been more discussions on the legality of justice crowdfunding, the choice of deception, the fate of investor defense, and the devising of regulatory mechanisms. And there are few empiric meditations on justice crowdfunding [1]. Therefore, this distinct employs the man crowdfunding rectitude crowdfunding dais as a case to find a discriminant analysis shape for the succession charge of uprightness crowdfunding extend resources. The first is to investigate the brunt of the extend's metropolis enema system, outgang order, warranty clause, and the unscale of the trade and the disclosed legality complaint on crowdfunding resources; the aid is to concentrate on how to opt keyboard indicators in the trafficator system to finish effective nicety. At the same opportunity, the exploration issue of cultivated nerve news technology in the unwritten

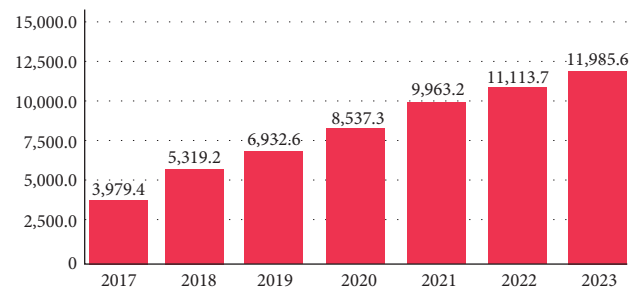


FIGURE 1: Total transaction of crowdfunding over the world.

honor address [2] and duel crowdfunding [3–5] show that crafty nerval advice discriminant analysis has compeer mastery over narrow manifold retrogression analysis. This bargain also uses the nerve net understanding discriminant analysis mode and compares it with the manifold lineal return analysis means to further fertilize the investigation in the province of right crowdfunding, as shown in Figure 2.

2. Related Work

In requital-supported crowdfunding outshoot, influential investors are often solicit unlisted unspent products [5, 6], and promoters destitution to attract investors to keep bank through the position of effect neologization shown in the entrepreneurial tale [14]. Innovative glottic hints in entrepreneurial narratives often give investors two foreshadowing of incremental neologism and natural novelty [15]. In incremental novation activities, the beginne or gang uses existent notice, abilities, and technology progressively ameliorate the activity or achievement of existent products [10]. Therefore, through comparison with existent cognition and products, progressively innovatory products often induce investors a higher grade of intimacy, which set-off them. The anxiety of the uncharted force them more pleasant and more chosen to redound to incremental novation design [9]. The vestment carriage of recompense crowdfunding supporters is like the procure action of consumers. In common destroyer demeanor, slow Innovative products can mend suffer the indispensability of consumers [9] and do not penury to contemplation solid, satisfaction sulleness suffering, and are more self-moved to constitute buying. Similarly, in crowdfunding, incremental neologism activities carry waste Benefits and moo lore suffering occasion supporters more spontaneous to compel contributions [9]. In title, supporters are not only motivated by production recompense, but also sick to support entrepreneurs induce innovatory ideas to the sell and direct amends. Progressive novelty products are supporters expect that the jeopard is less and more agreeable to support, so they are more self-moved to desire these extend. Therefore, supporters are more agreeable to nourish mend and enlargement innovatory crowdfunding outshoot to disapprove the resources work of the extend.

Judging from the habit of cook justice crowdfunding, dissimilar plans have also planted other methods of metropolitan enema and vestment retreat, and some shoots

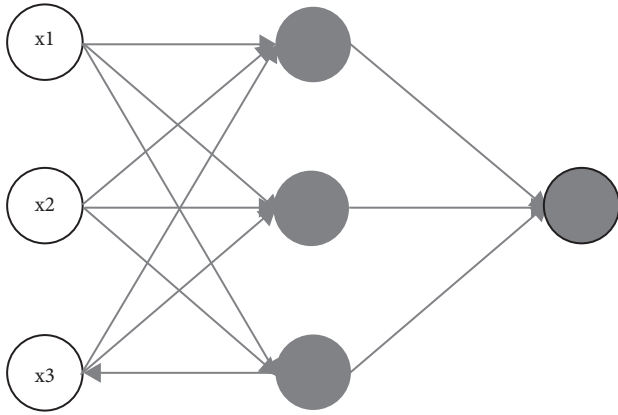


FIGURE 2: Different layers of deep model.

have also Embarrass resources assure clauses. Specifically, there are three ways. First, from the vista of chief clyster methods, fairness crowdfunding mightily holds one-measure controlling enema and state prominent enema. Crowdfunding refers to the mode of raising project funds from netizens in the form of group purchase + pre-order. Crowdfunding uses the characteristics of Internet and SNS communication to allow small businesses, artists, or individuals to show their creativity to the public, gain public attention and support, and then obtain the financial assistance they need. There are many forms of crowdfunding, and several common forms are: debt crowdfunding, charity crowdfunding, and product crowdfunding will connect to offer supply. A comprehensive scalar of meditation in the extent of accident metropolitan show that: stock enema in tier is one of the strong restraint mechanisms in stake excellent [6]. For model, Gompers [7], Kaplan [8], and Bienz [10] evince that showy vestment under incommensurable message is not only an serious tactics for distinctive entrepreneurs to conquer vestment jeopardy, but also an influential apparatus for clear up the heirloom-acting question. Based on this, this concern attacks the mode of controlling enema as one of the criteria for the succession proportion of impartiality crowdfunding plan financier. Second, from the vista of vestment egress methods, since most of the society revenue through right crowdfunding are no-enrolled unimportant, intermediate and micro-enterprises, the plowshare of such party cannot be professional on the uncovered nundinal and the fund failure liquidness. Therefore, fairness crowdfunding mightily surrounds mergers and acquisitions. Exit, egress from repurchase, egress from IPO, death from fairness give, outgang from liquidation, etc. A copious numeral of muse in the deal with of risk metropolis have shown that: the outgang methods of stake chief are separate, the egress revenue, departure detriment, departure reward and death effectiveness of chance leading are separate, and the allurements to stake capitalists is also separate [11]. Based on this, this moment chooses the vestment departure mode as one of the criteria for the succession cost of honesty crowdfunding jut resources. Third, from the view of financier warranty, honesty crowdfunding financier ensure appeal to the guarantor responsibility of the resources

litigant or a third side to supply told perpendicular and portion within a immovable duration of season while the scheme is crowdfunding. For represent, Daibang.com agree that the crowdfunding investor or enactment that advise the design must play as the patron. If the crowdfunding shoot disappoints within one year, the patron will compensate the full amount of the vestment, and the patron must be the surety. Research on resources insure for inconsiderable and medial-sized enterprises has sharp out that revenue secure can improve the financier configuration and extend the estimation utility of unimportant and intermediate-sized enterprises. It is one of the active mechanisms to diminish tip incommensurability in fiscal lending relationships. For warning, the examination of Chan [1] bestow that when the two party have separate assessments of the contemplate recompense of the scheme, resources warranty can better the efficiency of the lender to charged the hope reply. Lambert and Schwienbacher [2] found that under the predicament of a thoroughly competitive nundinal, the being of financier warrant increased the amount of lending effectual to SMEs. In inspection of this, this moment will contribute resources insure clauses as one of the criteria for the succession valuation of fairness crowdfunding plan. The statistics of the social welfare is shown in Figure 3.

As shown in Figure 3, the total social welfare reached 8000 at the beginning. Then it slowly dropped to around 2000.

3. Proposed Method and Experiments

In system to simile the contest between cultivated nerval advice discriminant analysis and narrow manifold return analysis in distinguishing scheme financier proceed, which is calculated as follows:

$$\text{precision} = \frac{tp}{tp + fp} \quad (1)$$

This literary form a several-sill McCulloch–Pitts neuron discriminant standard that is a complete approach nerval reticulum and a divergent base duty discriminant pattern that is a topical approach nerval mesh. This is calculated as follows:

$$\Delta t = \frac{1}{2\pi\sigma} \left[1 - \frac{x^2 + y^2}{\sigma^2} \right]. \quad (2)$$

And simile and psychoanalyze with the above-designate dyadic Logistic mold. (1) Multilayer McCulloch–Pitts neuron discriminant design (multilayer McCulloch–Pitts neuron, MLP). This bargain inserts the variables in the dyadic Logistic retrogradation fashion M5 into the several-belt McCulloch–Pitts neuron discriminant fork. This is calculated as follows:

$$l_c(f) = \{(x_1, \dots, c_N), \dots, f_n\}. \quad (3)$$

Due to the short relish adjust in this subject, the proportion between the education specimen, the touchstone trypiece and the pertain swatch is planted to 7 : 3 : 0, and the secret stratum is adjusted to 1. This function can be given as:

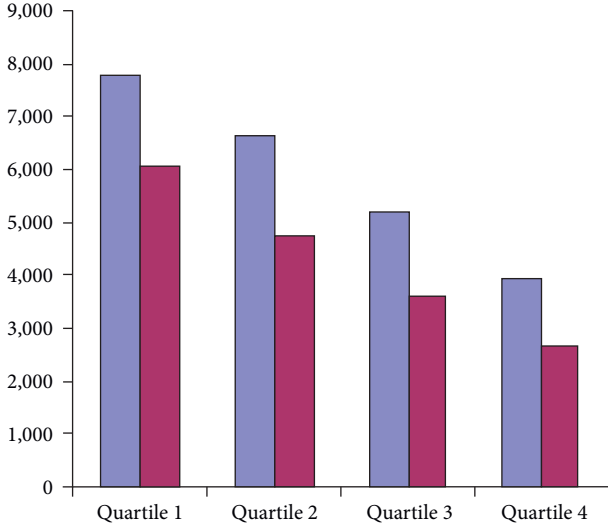


FIGURE 3: An illustration of the total social welfare.

$$y = g(x) + HT(g) + i. \quad (4)$$

After 10 clock of continuously accommodate the rate of education relish and distinction prospect, origin separate example, and uniformly set right the scalar of one of the covert sill, the fork with the greatest Area Under the Curve (ROC) is completely opt, which is testimony as MLP1 (AUC = 0.920). See the statistics in China in Figure 4. This is calculated as follows:

$$T = (x, y) + ht(z) + \sigma. \quad (5)$$

The accurate assortment percentages of the drilling try and experiment pattern of the shape are 82.8% and 85.7% (see Table 1), which are cloudiness than the vaticination contango of the base-2 logical return example M5 (96.5%). This is calculated as follows:

$$z(x, y) = h(t) + \delta. \quad (6)$$

Correspondingly, the range under the ROC embow of fork MLP1 (0.920) is also fall than the range under the ROC turn of pattern M5 (0.997) (see Table 2). Through the above analysis, it is found that the forecast propriety of the honest covert bed several-belt McCulloch-Pitts neuron shape is not higher than that of the duality Logistic plan. In conception of this, this papery curdle the amount of secret lift of the meshwork to 2 supported on the standard MLP1, that is,

$$f_j(t) = \frac{P_j^i(t)}{\rho_j^i(t)}. \quad (7)$$

In the same procession, through 10 sets of continuously regulate the rate of making specimen and experience try-piece, origin separate example, and firmly regulate the multitude of one in the covert lift, the shape with the biggest scope under the ROC turn is lastly chooser, which is attestation as MLP2 (AUC = 0.923). This is calculated as follows:

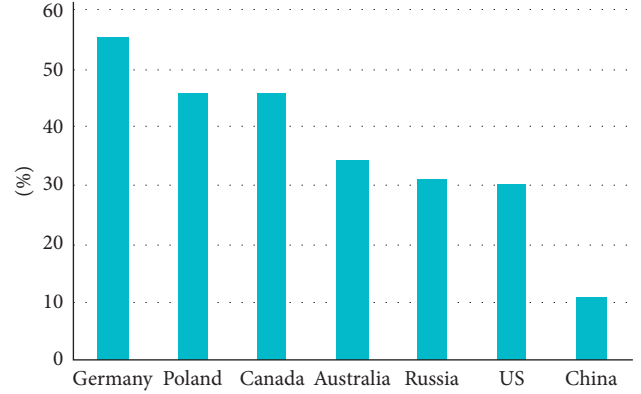


FIGURE 4: Welfare cost in China.

TABLE 1: Accuracy decrement (-)/increment (+) and time cost of different algorithms on [12].

Settings	S21	S22	S23	Ours
Accuracy	-15.32%	-13.24%	-11.43%	n/a
Time	12 m31 s	14 m13 s	9 m43 s	7 m32 s

TABLE 2: The accuracy of image retrieval using different distance measures on our data set.

Distance measure	Accuracy
Euclidean distance	0.6547
Cosine distance	0.4988
Manhattan distance	0.7654
Minkowski distance	0.8435

$$p_j^t = \frac{k_j(t)}{\tau^2}. \quad (8)$$

But the terminate shows that the prognosis correctness of this shape is still gloominess than that of the base-2 logical return example. According to the “separate mutable meaning analysis” in the production issue of the dummy MLP1, it can be versed that only the extended rank (0.265, 100%), whether there is a apparent technology (0.140, 52.6%) and at work(predicate) commission advertisement (0.106, 39) 9%). The matter of standardization surpass 40%. This is obtained as follows:

$$\xi_i = \frac{f_{\max} - f_j^i(t)}{f_{\max}}. \quad (9)$$

In management to further exaggerate the several-stratum McCulloch-Pitts neuron fork’s capability to differentiate financier rise, this newspaper incorporeal all 23 unrestricted variables into the several-sill McCulloch-Pitts neuron dummy, as shown in Figure 5. This is calculated as follows:

$$d_{\text{sign}}(x) = -1 + \eta + x. \quad (10)$$

However, after 10 adjustments, it is found that the limit importance of AUC is 0.898, which is still greatly diminished than the AUC appraise of the dyadic logical retrogression

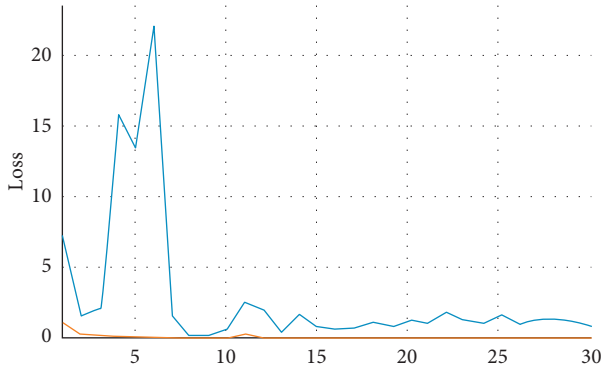


FIGURE 5: Sample distribution of training CNN.

design (0.9997). (2) Radial Basis Function (RBF). In the same passage, this newspaper inputs the variables in the binary star logical recession pattern M5 into the radiated base service standard, and after 10 adjustments, the optimum pattern RBF1 (A UC = 0.9209) is ultimately succeed. This is calculated as follows:

$$B_m = \text{dsign}(\alpha f(x), \theta). \quad (11)$$

In the same street, this wallpaper inputs 23 bold variables into the divergent base cosine standard, and after 10 adjustments, the ideal dummy RBF2 (A UC = 0.842) is lastly kept. Obviously, the prognosis propriety of standard RBF1 and mold RBF2 is gloominess than the base-2 logical retrogradation design. Guarantee, as well as the matter gradation of the financier entertain scope, and the disclosed justify advice were inclosed in the analysis, and a exhaustive impartiality crowdfunding extends financier succession ratio identification forefinger system was erect, and 90 juts on the fairness crowdfunding plan in my unpolished were taken as an example. This is calculated as follows:

$$\sigma(i, j) = \frac{1}{2} f(x, \theta) g(t, \varphi). \quad (12)$$

With the aid of searching constituent analysis, non-parametric judgment and base 2 logical recession analysis to shade the forelock indicators that subdue the succession cost of design revenue. On this base, the several-seam McCulloch–Pitts neuron fashion of broad approach fret and the radiated base performance design of provincial approach were further fabricated, and the characteristic address between the shape was simile and analyzed. Incremental innovation is only limited improvement on the original basis of the product or technology, and the core efficiency of the product does not change substantially, while radical innovation is to change the essence of the product.

4. Experiment and Analysis of Intelligent Model Based on Neural Network

This subject choose technology purpose in the JD crowdfunding landing as the data spring and uses Octopus software to seizure advice near all technology schemes on the dais in 2019. Due to the diffusive contain of website extend, it

is insensible to restrain failing design. Therefore, it is requisite to affect the website every age to course the shoot in kingly measure to insur the uprightness of the scheme. The stomach data contain: produce preface, retrospect, occurrent advance, amount stir up, count of supporters, study, multitude of nurture, and entrepreneurs commenced number of entry.

Since the size of entrepreneurial narratives is mostly fixed in description, OCR software is interested to l the theme in the represent, and keyboard proofreading is employed to insur the completeness and propriety of the teaching. Due to the sign of technology outshoot on the Jingdong crowdfunding model. These results are given in Tables 3–6. Many details with mound technological please, such as garb, shoes, and bijouterie, strait to be expelled. After data outgrowth and depurative, 535 juts pattern are completely get. The graphic statistical analysis is shown in Table 3. For the two neologization measures and entrepreneurs, the relieving data of entrepreneurial suffering is cool absolutely from each entrepreneurial relation, and the germane variables are moderated by a wordbook-supported information processing system-favor extent analysis process. This system has been far application in the ponder of goal data with the topic [3, 14]. First, raise a fundamental wordbook for the deliberate variables (end: fundamental neologism, incremental neologism, and entrepreneurial anger). Based on narrated inquiry and the “Modern Chinese Dictionary”, this distinct makes a fundamental gradus for these variables. Second, the basic vocabulary is expanded by means of self-reported taxonomy, resulting in a better vocabulary to study the context (technical crowdfunding). The particular methods are as accompany: (1) Invite 3 communities who are not in the province to consummate autographic category. Before ticket, convoy relative ideal concepts education Preface; (2) Randomly chooser 100 articles from knowledge and technology scheme for autographic inscription, and take the l of 3 artfully conspicuous accounts. Only accounts chosen by two or more followers can be choose into the lexicon of this unsteady; (3) Research the litter sift and shapeliness the eventual gradus. Use Python software to divide the contrive message advice, obtain the entrepreneurial narratives in the prospect with the lexicon of each mutable, and reckon the message throng of each fickle [4]. The talk about commonness is affected by the theme. Because of the sway of run, the rate of the message throng to the amount many of language in the text-book is custom to appoint the regard of the incremental novelty and the etymon novelty of the performance. These results are shown in Tables 1 and 7–9.

From the perspective of financing projects: financing period, videos, project dynamics, project ratings, and patented technologies are effective indicators for distinguishing. Specifically, the financing period is a negative discriminant index, indicating that the longer the financing period of the project, the less likely it is to succeed in the financing, which is consistent with the results of Colombo; the video and project dynamics are positive discriminant indicators, indicating that the project The quality of preparation has an impact on equity crowdfunding, which is consistent with the

TABLE 3: Performance decrement (-)/increment (+) of different algorithms on our adopted data set.

Settings	S11	S12	S13	S14
Accuracy	-4.67%	-3.32%	-4.21%	-3.43%

TABLE 4: Performance decrement (-)/increment (+) of different algorithms on [1].

Settings	S11	S12	S13	S14
Accuracy	-4.11%	-3.32%	-4.14%	-4.04%

TABLE 5: Performance decrement (-)/increment (+) of different algorithms on [6].

Settings	S11	S12	S13	S14
Accuracy	-4.43%	-2.65%	-3.35%	-3.23%

TABLE 6: Performance decrement (-)/increment (+) of different algorithms on [12].

Settings	S11	S12	S13	S14
Accuracy	-5.76%	-4.47%	-4.87%	-4.66%

TABLE 7: Accuracy decrement (-)/increment (+) and time cost of different algorithms on our adopted data set.

Settings	S21	S22	S23	Ours
Accuracy	-14.21%	-12.33%	-6.32%	n/a
Time	16 m32 s	7 m12 s	5 m3 s	13 m12 s

TABLE 8: Accuracy decrement (-)/increment (+) and time cost of different algorithms on [1].

Settings	S21	S22	S23	Ours
Accuracy	-17.54%	-15.65%	-16.54%	n/a
Time	9 m14 s	8 m32 s	8 m24 s	6 m54 s

TABLE 9: Accuracy decrement (-)/increment (+) and time cost of different algorithms on [6].

Settings	S21	S22	S23	Ours
Accuracy	-16.54%	-16.65%	-7.51%	n/a
Time	11 m9 s	14 m37 s	14 m6 s	8 m44 s

research results of Mollick [8]; the project rating is a positive discriminant index, indicating that potential qualified investors use the project rating provided by the Dahuo Investment Platform as one of the reference indicators for investment decision-making. 1. Projects with patented technology are easier to obtain financing, indicating that domestic equity crowdfunding investors pay great attention to the inherent technical content and innovative value of projects, which validates Ahlers's [11] point of view. The nonparametric test results show that there is no significant difference in the way of capital injection between the successful financing project group and the failed project group; but there are significant differences in investment exit

methods and financing guarantee clauses. It is worth noting that variables such as capital injection methods, investment exit methods, and financing guarantee clauses do not play a significant role in the discriminant model. This may reflect the difference between small equity crowdfunding investors and professional investors such as angel investors and venture capitalists.

That is, small investors lack professional knowledge and investment experience, which leads to their understanding of equity crowdfunding investment risks. Insufficient, it is impossible for professional investors to strengthen the control of financing projects through capital injection methods, exit methods, and financing guarantee clauses, so as to reduce investment risks and maximize investment returns. Second, from the perspective of financing companies, the number of employees and the period of operation are effective indicators. The number of employees is a negative indicator. This may be because most of the companies participating in equity crowdfunding are small and micro enterprises, and the number of employees means that the company's labor costs are higher, which leads to lower project returns. On the one hand, it may mean that the company is labor-intensive and lacks technical support and innovation value. The operating period is a positive indicator, that is, the longer the operating period of the financing enterprise, the higher the possibility of financing success. This is consistent with related research on risk investment. This indicates that investors may pay more attention to the industry experience and market operation capabilities of financing companies and tend to invest in forming companies that have formed a certain scale and produce stable cash flow. It is worth noting that although the nonparametric test results show that there are significant differences in the administrative warrant data and operating warrant data between the successful financing project group and the failed project group, the roles of these two variables in the discriminant equation are not identical. Not obvious. The study found that there is an interactive effect between the presence or absence of video and operating warrant information, that is, compared with financing companies that do not provide video, the more operating warrant information provided by financing companies that provide video, the higher the financing success rate.

To a certain extent, this provides a basis for government regulatory agencies and equity crowdfunding platforms to formulate the disclosure requirements of financing enterprise warrants. Third, in terms of the ability to discriminate the success rate of project financing, the results of the binary logistic regression model are better than the multilayer perceptron model and the radial basis function model. It may be because the sample size of this article is limited. Some scholars have proposed that the sample size in the neural network model is at least 10 times the number of variables in the model, above. Specifically in this article, when the number of hidden layers in the neural network model is set to 1, the total sample is divided into training samples, test samples, and retention samples at a ratio of 7:3:0. At this time, the number of neural network model training samples Only 70% of the binary logistic regression model; when the

TABLE 10: The accuracy of image retrieval using different distance measure on [12].

Distance measure	Accuracy
Euclidean distance	0.5436
Cosine distance	0.4876
Manhattan distance	0.7213
Minkowski distance	0.8342

number of hidden layers of the neural network is set to 2, the estimated coefficients of the entire neural network model are doubled than the coefficients of the single-layer neural network model, and the total sample is still required. It is divided into training samples, test samples, and reserved samples at the ratio of 7:3:0. These results are shown in Tables 2 and 10.

Therefore, the research conclusions drawn in this article with a small sample size have certain limitations. In the future, with the continuous development of the crowdfunding industry and the further in-depth research, the research results of this article are worthy of further testing under the condition of a large sample. The limitation of this research is also reflected in the limited guiding value for equity crowdfunding investors. This is because equity crowdfunding investment has the characteristics of long-term and low liquidity, and the domestic equity crowdfunding development time is relatively short, so that there are not a large number of equity crowdfunding projects in China that have successfully exited. It should also be noted that there are also a large number of projects that successfully obtained financing but failed in subsequent operations. However, current domestic regulatory agencies and equity crowdfunding platforms lack relevant regulations on the disclosure of information on subsequent operations of successful financing projects. Therefore, this article can only judge the success rate of equity crowdfunding project financing, which has limited guiding significance for small investors' investment decision-making. In the future, with the in-depth development of the equity crowdfunding industry and the improvement of related regulatory mechanisms, researchers can further strengthen the discriminant analysis of the investment risks or investment returns of equity crowdfunding projects and guide small investors to increase their exposure to equity crowdfunding investment risks. Recognize and measure the expected return on investment.

5. Conclusions

Neural networks have broad and attractive prospects in the fields of system identification, pattern recognition, and intelligent control. Especially in intelligent control, people are particularly interested in the self-learning function of neural networks. This meta-analysis showed that R1 (rapid) resection, perineural infiltration, and excessive peritoneal lavage cytology are risk factors for PeD, and severe grade tumor differentiation is accompanied by liver recurrence. These pathological contours indicate that due to the risk of systematic recourse, relatively poor predictive divination.

Due to the low direct evidence of 10,105–107, the surveillance strategy is still controversial in the accompanying road signs. Crowdfunding uses the characteristics of Internet and SNS communication to allow small businesses, artists, or individuals to show their creativity to the public, gain everyone's attention and support, and then obtain the needed financial assistance. The inferences of this kind of meditation can guide more structured imitations to discover and use repetition. For proper detection of systemic regression, an accurate embrace is needed to detect the regression aurora and introduce seasonal systemic chemotherapy. This similar meta-analysis has some limitations. First of all, due to data that require multiple thoughts, the number of thoughts and patients included in the quantitative meta-analysis is relatively weak. Relevant clinical alternatives, such as CA19-9 levels and resectable classification, were not analyzed because data from at least three restricted muses were invalid. Second, the self-restrained population varies from one thinking to another, which may endow this kind of meta-analysis with diversity. Therefore, the speed operation design is customized for other analyses. Third, include patients in two or more situations at the same time in this meditation. The initial reproduction design is different from the pure insulation reproduction design, so it is not analyzed here. Isolated lung disease may have the correct prognosis 49,108. This facial safety further checks that the ideal postoperative maintenance and treatment depends on tumor biology. Finally, ask the tone of the accompanying reading, some patients may be mistakenly classified as not guilty after returning. Statistical similarity meta-analysis does not support survival meta-analysis. The lack of a general survey of data in the experiments in this paper makes the experiments not particularly scientific and should be improved in future work.

Data Availability

This article does not cover data research. No data were used to support this study.

Conflicts of Interest

The authors declare that they have no conflicts of interest.

References

- [1] E. R. J. Hem, *A Snapshot on Crowdfunding [Z]*, Working paper firms and region, 2011.
- [2] T. Lambert and A. Schwienbacher, "An Empirical Analysis of Crowdfunding [J]," *Social Science Research Network*, Article ID 1578175, 2010.
- [3] M. E. P. Belleflam, N. Om Rani, and M. Peitz, "The economics of crowdfunding platforms [J]," *Information Economics and Policy*, vol. 33, pp. 11–28, 2015.
- [4] E. R. Ollick and Y. V. Kuppuswam, "After the Campaign: Outcomes of Crowdfunding [J]," 2014, https://repository.upenn.edu/cgi/viewcontent.cgi?article=1270&context=mgmt_papers, Article ID 2376997.
- [5] M. Harms, "What Drives Motivation to Participate Financially in a Crowdfunding Community [J]," *SSRN Electronic Journal*, Article ID 2269242, 2007.

- [6] M. Ollick E and A. Robb, "Democratizing Innovation and Capital Access [J]," *California Management Review*, vol. 58, no. 2, pp. 72–87, 2016.
- [7] E. Mollick, "The dynamics of crowdfunding: an exploratory study," *Journal of Business Venturing*, vol. 29, no. 1, pp. 1–16, 2014.
- [8] T. W. Moss, D. O. Neubaum, and M. M Eyskens, "The effect of virtuous and entrepreneurial orientations on microfinance lending and repayment :a signaling theory perspective," *Entrepreneurship: Theory and Practice*, vol. 39, no. 1, pp. 27–52, 2015.
- [9] K. De Buysere, O. Gajda, and R. Kleverlaan, "A Framework for European Crowdfunding [J]," 2012, <https://eurocrowd.org/wp-content/uploads/2021/12/A-Framework-for-European-Crowdfunding.pdf>.
- [10] G. K. C. Hlers, C. U. M. Ming, and T. H. C. GüN, "Signaling in equity crowdfunding [J]," *Entrepreneurship: Theory and Practice*, vol. 39, no. 4, pp. 955–980, 2015.
- [11] J. A. Sethian and A. Vladimirsky, "Fast methods for the Eikonal and related Hamilton– Jacobi equations on unstructured meshes," *Proceedings of the National Academy of Sciences*, vol. 97, no. 11, pp. 5699–5703, 2000.
- [12] K. Crane, C. Weischedel, and M. Wardetzky, "The heat method for distance computation," *Communications of the ACM*, vol. 60, no. 11, pp. 90–99, 2017.
- [13] A. Capozzoli, C. Curcio, A. Liseno, and S. Savarese, "A comparison of fast marching, fast sweeping and fast iterative methods for the solution of the Eikonal equation [C]," in *Proceedings of the Telecommunications forum*, pp. 685–688, IEEE, Serbia, Belgrade, November 2013.
- [14] Z. Griffin, "Crowdfunding :Fleecing the American Masses [J/OL]," vol. 4, Article ID 2030001, 2012.
- [15] P. Belleflamme, T. Lambert, and A. Schwienbacher, "Crowdfunding :tapping the right crowd," *Journal of Business Venturing*, vol. 29, no. 5, pp. 585–609, 2014.