University Enterprise Innovation Cooperation Platform Construction Considering Computer Multi-dimensional Dynamic Innovation Mode

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Abstract. The construction of college students' entrepreneurship and innovation model, through the construction of school-enterprise cooperation platform and other forms, has important practical significance for promoting college students' employment, alleviating the pressure of social employment, and improving the enthusiasm and success rate of college students' entrepreneurship and innovation. This paper first analyzes the mechanism of college students' entrepreneurship and innovation based on computer multidimensional dynamic innovation model, then studies the importance of influencing factors of college students' entrepreneurship and innovation, and finally gives the school enterprise cooperation platform construction strategy of entrepreneurship and innovation based on computer multidimensional dynamic innovation model.

Keywords: College Enterprise Cooperation, Platform, Entrepreneurial innovation, Multi-Dimensional Dynamic Innovation Model, Computer Mode

1. Introduction
With the continuous expansion of the scale of colleges and universities, more and more college graduates face the employment problem every year, which brings great pressure to the employment of college students and the security of social employment[1-2]. The figure 1 below shows the number of college graduates and their employment rate in the past nine years in China. It can be seen that with the continuous increase of the number of graduates, the employment rate of college students generally shows a downward trend. In this situation, actively promoting the entrepreneurial innovation of college students can significantly reduce the pressure of social employment, and improve the efficiency of human resources[3-4]. Therefore, it is of great practical significance to study the entrepreneurial innovation model of college students and actively build the cooperation platform between school and enterprise to promote the employment of college students, reduce the pressure of social employment and enhance the enthusiasm and success rate of entrepreneurial innovation of college students.
2. Entrepreneurial innovation mechanism of college students based on multi-dimensional dynamic innovation model

2.1. The framework of multi-dimensional dynamic innovation model

At present, the severe situation of college students' employment makes it necessary to solve this problem through multiple levels of linkage, coordination and cooperation\[5-6\]. Therefore, it is necessary to actively integrate and coordinate multiple levels, as shown in Figure 2 below, to build an efficient and systematic multi-dimensional dynamic innovation model, so as to realize the integrated development of school-enterprise cooperation and entrepreneurial innovation.

![Figure 2. Multiple levels of integrate and coordinate activities](image)

The framework of the multi-dimensional dynamic innovation model includes different levels, each level involves different participants, so as to play the coordination within the level, and the different levels can quickly realize the diffusion of information through the straight-line information exchange.

2.2. College-enterprise cooperative entrepreneurial innovation mechanism based on multi-dimensional dynamic innovation model

The establishment of school-enterprise cooperative entrepreneurial innovation mechanism based on multi-dimensional dynamic innovation model requires the joint participation of multiple levels of forces, and different mechanism levels are formulated according to the different roles and capabilities of participants. For example, because the government and society play a very important role in promoting the entrepreneurial innovation of college students, it can be divided into entity level, and there are many uncertain factors in the process of entrepreneurial innovation of college students. Therefore, in order to further analyze and study these factors, it needs to divide them into influence level. In addition, the process of entrepreneurial innovation of college students cannot be separated from the promotion of many driving factors, such as the role and ability of school-enterprise cooperation platform, so these factors can be attributed to the power level. At this point, it can initially build a three-level mechanism of school-enterprise cooperative entrepreneurial innovation based on the multi-dimensional dynamic innovation model. In the school-enterprise cooperative entrepreneurial innovation mechanism based on the multi-dimensional
dynamic innovation model, which can't do without the guarantee of various resources, so we need to carry
out the operation guarantee of the mechanism based on various resource factors such as capital, technology
and opportunity.

3. The importance of factors influencing entrepreneurial innovation of college students

The structure of multi-dimensional dynamic innovation model and the establishment of school enterprise
cooperative entrepreneurial innovation mechanism help to analyze the relationship between college students'
entrepreneurial innovation mechanism and multi influencing factors qualitatively, but the research on the
importance of influencing factors of college students' entrepreneurial innovation needs more accurate
quantitative analysis. Therefore, based on the principle of maximum interval, it can choose the parameter
pair \((W, b)\) which makes the training set \(d\) take the maximum value for the geometric interval of linear
function \((w \cdot x) + B\), and then construct the decision function. The Lagrange multiplier method transforms it
into a dual problem.

\[
L(w, b, \alpha) = \frac{1}{2} ||w||^2 - \sum_{i=1}^{n} \alpha_i (y_i ((w \cdot x_i) + b) - 1) \tag{1}
\]

In which, \(\alpha = (\alpha_1, \alpha_2, \ldots, \alpha_n) \in \mathbb{R}_+^n\) is called the Lagrange multiplier. Then the original optimization
problem transformed into dual problem:

\[
\min_{\alpha} \frac{1}{2} \sum_{i=1}^{n} \sum_{j=1}^{n} y_i y_j \alpha_i \alpha_j (x_i \cdot x_j) - \sum_{j=1}^{n} \alpha_j \tag{2}
\]

s.t. \(\sum_{j=1}^{n} y_j \alpha_i = 0,\)

\(\alpha_i \geq 0, \quad i = 1, \ldots, n\)

Then, the following decision function is obtained:

\[
f(x) = \text{sgn} \left( \sum_{i=1}^{n} \alpha_i^* y_i (x \cdot x_i) + b^* \right) \tag{3}
\]

Through the analysis of the multiple support vector machine function, the paper verifies the dependence
of college students' entrepreneurial innovation on the school enterprise cooperation platform, so the
construction of the school enterprise cooperation platform plays a significant role in supporting college
students' entrepreneurial innovation.

4. Construction strategy of school enterprise cooperation platform for entrepreneurial innovation
based on multi-dimensional dynamic innovation model

4.1. Promote the effective operation of college enterprise cooperative entrepreneurial innovation mechanism
based on multi-dimensional dynamic innovation model

Since the school enterprise cooperative entrepreneurial innovation mechanism based on the multi-
dimensional dynamic innovation model consists of different mechanism levels composed of multiple levels,
to ensure the efficient operation of the operation mechanism of the multi-dimensional dynamic innovation
model, each mechanism level needs to play its due role.

First of all, in the need to play a multi-dimensional dynamic innovation model in the main dimensions of
the basic support role, from the government to society and then to universities to play their respective roles,
so as to ensure the effective transformation of the practice opportunities and achievements of entrepreneurial
innovation of college students. Secondly, it is necessary to promote the innovation and transformation of the
factor dimension, so that the promotion factors can positively affect the landing and smooth development of
the concept of entrepreneurship and innovation. Finally, we should play a dynamic role in driving the
development of dimensions, and ensure the normal operation and sustainable development of entrepreneurial
innovation concept after implementation. It can be seen that the function of the school enterprise cooperative entrepreneurial innovation mechanism based on the multi-dimensional dynamic innovation model needs each element to play a different role based on the different stages of development of entrepreneurial innovation, so as to achieve the effect of mechanism construction.

4.2. College enterprise cooperation to strengthen the construction of entrepreneurship and innovation education and platform

First of all, it should promote the active social practice of college students with disabilities, and ensure that enterprises can send experienced experts to colleges and universities to explain the practical experience of entrepreneurial innovation, so as to introduce the actual project cases of enterprises, and improve the engineering and pertinence of the content of entrepreneurial innovation practice. Secondly, colleges and universities should actively develop comprehensive training projects, select appropriate enterprise projects and teacher topics, and ensure the effective implementation and development of practical projects. In addition, colleges should also establish an incentive mechanism for students, establish a resource sharing platform, and constantly broaden students' learning ideas to stimulate students' enthusiasm for learning and exploration. Finally, colleges should cultivate the ability of team management and the consciousness of management practice, so that students can better and faster adapt to the environment and atmosphere of independent entrepreneurship, and lay the foundation for the smooth implementation of entrepreneurial innovation in the future.

5. Conclusions

With the continuous expansion of colleges and universities, the overall employment rate of college students shows a downward trend. In this situation, actively promoting the entrepreneurial innovation of college students can significantly reduce the employment pressure of society. This paper points out the construction strategy of the school enterprise cooperation platform based on the multi-dimensional dynamic innovation model through the construction of the school enterprise cooperation entrepreneurial innovation mechanism of the multi-dimensional dynamic innovation model. That is, to ensure the effective operation of the school enterprise cooperative entrepreneurial innovation mechanism based on the multi-dimensional dynamic innovation model, and to strengthen the construction of entrepreneurship and innovation education and platform, so as to ensure the smooth implementation of college students' entrepreneurial innovation.

Acknowledgement

The Project of Qiqihar Science and Technology Bureau:Research on Educational Model and Cultivation System of University Students’ Innovation and Entrepreneurship (Serial number: RKX-201624).

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