

Research Article

# The Practical Path and Development Thinking of Artificial Intelligence Empowering the Cultivation of Talents in Party Schools in Colleges and Universities

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## Abstract

In the new era of rapid iteration of digital technology and in-depth advancement of education digitalization strategies, artificial intelligence, as the core driving force, is profoundly reshaping the education form, governance model and education path, injecting new vitality into the reform and innovation of college party schools. As an important position for the party's ideological and theoretical construction, the party school in colleges and universities is the core platform for carrying out theoretical education, party spirit tempering, and political ability improvement for young party members, party activists, and grassroots party workers. Under the traditional training model, it has always faced serious problems such as serious homogeneity in educational content, single and solidified teaching forms, insufficient precise supply, low management and operation efficiency, and insufficient comprehensive assessment and evaluation. The traditional teaching and training model of party schools has been difficult to fully meet the individual needs of the growth and development of young party members in the new era, and it is also difficult to meet the practical requirements of the high-quality development of party building in colleges and universities. Artificial intelligence has injected new development momentum into the cultivation of party schools in colleges and universities. By reconstructing education supply methods, integrating online and offline teaching scenarios, strengthening data-driven governance, and improving the whole-process evaluation system, it has effectively promoted the iterative upgrading of party member education models and continuously strengthened the new era. The attractiveness, cohesion and effectiveness of party member education in colleges and universities.

## Keywords

Artificial Intelligence, Party Schools in Colleges and Universities, Party Member Education, Digital Governance, Wisdom Party Building

## 1. Introduction

At present, technologies such as big data, algorithm recommendation, virtual simulation, and generative AI continue to

make breakthroughs and are widely used in education, medical care, government affairs, and social governance. Artificial

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intelligence is using unprecedented power to promote systematic and deep-seated changes in production and life, social governance, and education and teaching. As a key position for carrying out theoretical arming of party members, strengthening party spirit, and improving political capabilities, party schools in colleges and universities are also facing the requirements of the era of digital and intelligent transformation under the background of this era, and have also ushered in important opportunities for reform and innovation [1].

From the perspective of policy orientation, the deep integration of high-level cadre education and training work and digital technology has always taken digitalization and intelligence as an important starting point for improving cadre education. The "National Cadre Education and Training Plan (2023-2027)" clearly stated that it is necessary to promote the deep integration of modern information technology and cadre education and training, vigorously promote digital education and intelligent education, build an intelligent learning platform, and improve the accuracy and effectiveness of education and training, and attractiveness [2]. Party schools in colleges and universities in the new era also undertake the important mission of educating people for the party and the country, and shoulder the important responsibility of cultivating young party members and grassroots party affairs backbones who are politically firm, high-quality, and worthy of heavy responsibilities. Actively conforming to the trend of the intelligent era and actively using artificial intelligence technology to empower the training of party schools in colleges and universities is not only a specific action to implement the national education digitalization strategy and the deployment of cadre education and training, but also an inherent solution to party school training, strengthening party building work in colleges and universities, and improving party member education, needs and inevitable choices.

From the perspective of actual needs, under the background of the new era, the talent training of party schools in colleges and universities has been difficult to meet the individual needs of the growth of young party members and the realistic requirements of high party building in colleges and universities. In terms of teaching content, most of them are unified theoretical lectures and policy interpretations. The content is not updated in time, lacks pertinence and innovation, and it is difficult to meet the differentiated needs of different students; In terms of teaching forms, offline classroom lectures are still the main ones, with insufficient interactivity, experience, and participation, and a single and solidified form, which has limited appeal to young students who grew up in the digital age and are accustomed to fragmented learning; In terms of management and operation, registration, attendance and check-in, course arrangement, file management and other work are mostly completed manually. The process is relatively cumbersome and inefficient, and it is difficult to achieve precise management and scientific decision-making; In terms of assessment and evaluation, the emphasis is on resultant assessments

such as final class tests and paper writing, ignoring the comprehensive monitoring and evaluation of students' learning process, participation, and ability improvement, and it is difficult to truly reflect the learning effect and the improvement of party spirit. Party school education in the new era must actively deal with single form, insufficient effectiveness, and weak pertinence, and digital technology is an important means and effective starting point to solve this problem. The rapid and wide application of artificial intelligence technology, with its unique advantages such as big data analysis, intelligent recommendation, virtual simulation, and intelligent interaction, provides a feasible path and technical support for solving the above and realizing the innovation of party school talent training in colleges and universities, and can effectively improve the education of party members. The accuracy, effectiveness, attractiveness and appeal of the party school will promote the training of talents in colleges and universities.

## 2. Analysis of the Current Situation of Artificial Intelligence Empowering Party School Training in Colleges

### 2.1. Practical Effect

In recent years, with the in-depth advancement of the education digitalization strategy and the rapid development of artificial intelligence technology, major domestic colleges and universities have accelerated the pace of building smart party schools, actively exploring the deep integration of artificial intelligence technology and the training of party schools in colleges and universities. Remarkable results have been achieved in training, management efficiency improvement, learning expansion, etc., and rich practices have been accumulated. This is consistent with the current practical results of the construction of smart party schools in domestic colleges and universities, and fully reflects the empowerment of artificial intelligence technology for the cultivation of party schools in colleges and universities value.

In terms of teaching innovation, new teaching forms such as online learning platforms, VR immersive party lessons, AI intelligent Q&A, and virtual simulation scenes continue to emerge. For example, the Party Building Innovation Practice Center of Nanchang University uses VR virtual simulation technology to create immersive red education scenes, restore party history events, red footprints, and revolutionary scenes, and allow students to receive party spirit education "immersively", which fully reflects the impact of intelligent technology. The empowering role of party school teaching innovation [3, 4]. At the same time, some colleges and universities rely on generative AI technology, personalized micro-class videos, theoretical interpretation copywriting and other learning resources to enrich the supply of teaching content, which can promote the transformation of education from "passive ac-

ceptance" to "active recognition", and achieve depth and validity. Double improvement [5].

In terms of precise training, relying on big data and algorithm technology, party schools in colleges and universities can comprehensively collect, in-depth analyze and accurately judge various data such as students' learning behavior, knowledge situation, interest preferences, and learning progress, and build students' "digital portraits", Accurately grasp the learning needs and knowledge shortcomings of students, realize the precise push of learning resources, course content, learning tasks, and learning reminders, and promote the transformation of party member education from unified and large-scale teaching to hierarchical and precise teaching. At present, most college party schools have initially constructed digital portraits of students. By accurately pushing learning resources and course content, the accuracy and effectiveness of party member education have been effectively improved. For example, for students with weak theoretical foundation, the intelligent system will automatically push learning resources such as basic theoretical knowledge and interpretation of key and difficult points; For students whose interests are biased towards party history research, the system will push content such as party history special courses and red story interpretation, truly realizing "one person, one policy, teaching students in accordance with their aptitude".

In terms of improving management efficiency, the smart party school platform has been gradually promoted and applied, realizing the integration and intelligence of functions such as registration, attendance and check-in, course management, assessment and evaluation, file management, and party affairs handling. Manual management is gradually replaced by an intelligent management system, which effectively streamlines the management process, reduces labor operating costs, improves the error rate of work practice, and significantly improves the standardization level, scientific efficiency and intelligent level of party school management in colleges and universities. The high advancement of education and management provides support. The application of the intelligent management platform can increase the management efficiency of party schools in colleges and universities by more than 40%, effectively reduce the transactional burden of party workers, and allow party workers to devote more energy to core tasks such as education and teaching, and party spirit tempering. For example, students can complete operations such as registration, course selection, and homework submission online through the smart party school platform; Party workers can check the attendance, learning progress and assessment results of students in real time through the platform, so as to realize precise management and dynamic monitoring of students; Archives management realizes digital storage and information management, which is conducive to the rapid retrieval of archives information, data statistics and preservation, and significantly improves the efficiency and standardization level of archives management.

In terms of learning expansion, artificial intelligence technology promotes the extension of party school education in colleges and universities from offline classrooms to online and offline integration, breaking the constraints of time and space, and building online and offline integration, the combination of independent learning and concentrated learning, fragmented learning and systematic learning Unified multi-collaborative learning. Students can log in to the smart party school platform anytime, anywhere through terminal devices such as mobile phones and computers to carry out learning, realizing fragmented, independent, and normalized learning, which is more in line with the learning and life rhythm and learning habits of young people [6]. The integration of online and offline learning can effectively break through the time and space constraints of party school education, expand the coverage of party member education, improve the learning autonomy and flexibility of students, enable young party members to use their spare time and fragmented time to carry out learning, and realize the normalization of theoretical learning. normalization and institutionalization. At the same time, functions such as the intelligent question-answering system and the online discussion platform provide students with all-weather learning support. Questions encountered by students during the learning process can be answered in real time through the AI intelligent question-answering system, and can also be communicated with classmates, Teachers carry out exchanges and discussions, which effectively improves the convenience and efficiency of learning.

## 2.2. Practical Dilemmas

Although the current work of artificial intelligence empowering party school personnel training in colleges and universities has achieved certain practical results and accumulated rich practices, on the whole, the overall level of deep integration of artificial intelligence and party school personnel training in colleges and universities is not high at this stage, mature and stable, A systematic and sound technology empowerment pattern has not yet been formed. In the process of promoting practice, we still face more prominent realities, which are universal in the current construction of smart party schools in domestic colleges and universities.

One is to emphasize technology application and neglect connotation construction, and the integration of technology and education is not deep enough. In the practice of relying on artificial intelligence to promote the construction of party schools, some colleges and universities have a one-sided tendency to emphasize technology application, ignore connotation construction, emphasize form innovation, and weaken actual results. Simple equating artificial intelligence with shallow applications such as online courses, electronic check-in, and video playback, blindly pursuing the advancement of technology and the innovation of forms, ignoring the core goals and core tasks of party school talent training. The deep integration of technology application and core content such as

party spirit education, theoretical teaching, and party spirit tempering is insufficient, and the empowering value of artificial intelligence technology has not been fully utilized, resulting in technology application being a mere formality, and it is difficult to truly improve the effectiveness and pertinence of party member education. There is even a phenomenon of "technology is higher than education".

Second, the homogeneity of content supply is serious, and the specialization and personalization are insufficient. At present, there is an obvious homogeneity problem in the supply of intelligent learning resources of party schools in colleges and universities. Most of the smart party school platforms and learning resources in colleges and universities are mostly reproduced and transported content from higher-level party schools, other colleges and universities or network platforms, lacking the combination of discipline characteristics and campus culture of the school., Customized and original learning resources with student characteristics. Although the theoretical and political nature of learning resources is guaranteed, they are not pertinent, interesting, and practical, and it is difficult to truly impress and lead young party members. Party school education has the phenomenon of "dislocation" of subject and object roles [7]. The homogeneity of content is an important factor restricting the effectiveness of AI-empowered party school education. The lack of characteristic and original resources makes it difficult for students to improve their learning enthusiasm. For example, there is little difference between the party school resources of science and engineering universities and those of liberal arts universities, and the learning content cannot be designed according to the thinking characteristics and professional advantages of subject students.

The third is that the digital literacy of teachers is insufficient, and the ability of human-machine collaborative teaching is weak. The teaching staff is the core force for artificial intelligence to empower the cultivation of talents in party schools in colleges and universities. Its digital literacy and human-computer collaborative teaching capabilities directly determine the effectiveness of the empowerment work. At present, some college party school teachers and party affairs workers are not familiar with artificial intelligence technology, lack intelligent teaching design, digital resources, data security management, algorithm application and other related capabilities, and it is difficult to skillfully use the smart party school platform and AI intelligent tools to carry out teaching activities And management work, it is difficult to realize the organic integration of "party affairs technology". At the same time, some teachers have relatively similar educational concepts, lack of understanding of artificial intelligence-enabled education, lack of awareness and ability to actively innovate, shortage of compound teachers, and lack of digital literacy of teachers are one of the core problems facing the digital transformation of party schools in colleges and universities.

Fourth, data security and ethical risks are prominent, and the prevention and control mechanism is not perfect. In the practice of artificial intelligence empowering college party

school personnel training, it is necessary to collect, store, and use a large amount of students' personal information, learning data, party affairs data and other information. These data involve students' privacy and party work secrets. Once leaked or abused, will cause serious consequences. At the same time, algorithm recommendation may cause an "information cocoon", causing students to only go to the content they are interested in, with narrow knowledge, limited ideological vision, and technical dependence [8]; The review mechanism for some virtual scenes and learning content is not perfect enough, there are hidden dangers of ideological risks, and it violates the political orientation of party school education. For the ethical risks of AI applied to party school education, it is necessary to strengthen the prevention and control of ethical risks, establish a sound risk prevention and control mechanism, and ensure that the application of technology adheres to the political bottom line, ethical bottom line, and safety bottom line.

Fifth, the system guarantee is not perfect, and the ability is insufficient. The in-depth advancement of artificial intelligence empowering party school personnel training in colleges and universities requires sound institutional guarantees, sufficient capital investment, professional technical support, and a sound evaluation mechanism. At present, many colleges and universities have not yet formed a complete smart party school construction plan and a management system for artificial intelligence-enabled party school training. The investment in the upgrade and maintenance of the smart party school platform, the update of digital resources, and the training of teachers' digital literacy is difficult to meet the actual needs. The update of software and hardware facilities lags behind, and it is difficult to support the in-depth application and upgrade of AI technology. In addition, there is a lack of a scientific evaluation mechanism, and the evaluation of the effectiveness of artificial intelligence-empowered party school training in colleges and universities, the digital teaching ability of teachers, and the learning effectiveness of students is not comprehensive and objective enough. Lagging system, insufficient funds, and imperfect evaluation mechanism are important factors restricting the digital transformation of party schools in colleges and universities.

### 2.3. The Cause of the Problem

Each figure should have a concise caption describing what it represents.

The formation of the above-mentioned reality is not the result of a single factor, but the product of the superimposed influence of multiple factors such as ideological understanding, talent supply, resource investment, and system construction. Combined with the current reality of party school construction in colleges and universities and related research results, it can be summarized into the following four In terms of one aspect, clarifying these causes will help us accurately solve them, and help artificial intelligence to be deeply empowered and efficiently implemented in the whole process of talent training in

party schools in colleges and universities.

First of all, there are deviations in ideological understanding and the degree is not enough. Some college party committees, party school managers, and party affairs workers have insufficient understanding of the importance, necessity, and urgency of artificial intelligence empowering college party school talent training, and there are fears of difficulties, coping psychology, and misperceptions. On the one hand, some managers have limited understanding and understanding of artificial intelligence technology, and it is difficult to accurately grasp the trend of the intelligent era. They believe that artificial intelligence empowering party school training is just "icing on the cake" rather than "sending charcoal in the snow", ignoring the impact of technology on cracking The important role of training and improving personnel training; On the other hand, some managers have the wrong tendency of "emphasizing form and ignoring actual effect", regard intelligent construction as a "performance project" and "face project", blindly pursue innovation in technical forms, and ignore the core goal of party school education, resulting in a disconnection between technology application and education work, making it difficult to exert practical results. At the same time, some party workers and teachers have insufficient understanding of artificial intelligence empowerment education, lack of awareness of active learning and innovation, and it is difficult to adapt to the new situation and new requirements of party school talent training in the intelligent era.

Secondly, the supply of compound talents is insufficient and team building lags behind. Artificial intelligence empowers the cultivation of party schools in colleges and universities, which requires a compound teaching staff and management team that understands both party building, ideology and politics, and digital technology, and has both party school education capabilities and intelligent technology application capabilities. At present, the teaching staff and management team of party schools in colleges and universities are mainly party workers and ideological and political teachers. They have a solid theoretical foundation for party building and rich education and teaching, but their digital literacy and technology application capabilities are insufficient; Although information technology personnel have strong technical capabilities, they lack the theoretical basis of party building and party school education, and it is difficult to organically combine technology application with party school education. At the same time, colleges and universities are not strong enough to cultivate and introduce compound talents from party schools, and lack a normalized digital literacy training mechanism, making it difficult to effectively improve the digital capabilities of existing teams.

Thirdly, resource investment is relatively limited and guarantees are insufficient. Artificial intelligence empowers the cultivation of party schools in colleges and universities, which requires sufficient capital investment, advanced software and hardware facilities, high-quality digital resources, and professional technical support. These are important foundations for

intelligent construction. At present, some colleges and universities do not pay enough attention to the work of the party school, and invest more resources in professional education, scientific research and other fields. The capital investment and technical support for the intelligent construction of the party school are relatively limited, and it is difficult to build a smart party school platform, upgrade and maintain, digital Actual needs for resources, teacher training, etc. For example, the smart party school platforms of some colleges and universities have simple functions and backward performance, making it difficult to support the application of advanced technologies such as big data analysis and virtual simulation; The technical support force is weak, and there is a lack of professional technical personnel, which makes it difficult to deal with various technical problems that arise during the operation of the platform, which affects the effectiveness of intelligent construction. Insufficient resource investment and insufficient guarantee are one of the important reasons why it is difficult to further promote AI applications in party schools in colleges and universities.

Finally, the evaluation system and system construction lag behind, lack of long-term support. A sound institutional system and a scientific evaluation mechanism are important guarantees for artificial intelligence to empower college party school personnel training to advance and achieve practical results. At present, many colleges and universities have not yet formed a complete management system for the construction of smart party schools and the training of artificial intelligence-enabled party schools. The norms for technology application, resource construction, teacher training, risk prevention and control, data management, etc. are not clear enough, and the work promotion is lacking. Systematic and planned, there is a phenomenon of "fighting independently and advancing blindly". At the same time, there is a lack of scientific evaluation mechanism, and the evaluation of the effectiveness of artificial intelligence empowering college party school training, the digital teaching ability of teachers, the learning effectiveness of students, and digital resources is not comprehensive and objective enough. The evaluation indicators are single, and the evaluation methods are backward. It is difficult to fully reflect the actual results of intelligent construction, and it is also difficult to stimulate the enthusiasm and initiative of party workers, teachers and students to participate in intelligent construction.

### **3. The Practical Path of Artificial Intelligence Empowering College Party School Training**

#### **3.1. Practical Effect**

The first is to adhere to the fundamental principle of "the party school is surnamed the party", put political construction in the first place, and ensure that the training of talents in party schools empowered by artificial intelligence in colleges and universities always adheres to the correct political direction.

This is the fundamental premise and core requirement for the training of party schools empowered by artificial intelligence. It is also an important feature that distinguishes it from technology applications in other fields. The political training function of the party school in colleges and universities embodies the fundamental attributes of the party school, and undertakes the important mission of unifying the ideological understanding and firmness of the cadres [9]. Ensure that technology application, teaching innovation, and management optimization always serve the core goals of party spirit education, theoretical arming, and personnel training, and resolutely put an end to erroneous tendencies such as "technology first".

The second is to improve the content review and control mechanism, establish a content review system of "multi-level review, political review, and responsibility to people", clarify the review subject, review process, and review standards, and review all learning resources, course content, and virtual information on the smart party school platform. Scenes, interactive information, etc. are strictly reviewed to ensure that all content positions are correct, content is standardized, and orientation is clear. Focus on strengthening the review of generative AI learning resources, virtual simulation scenarios, and algorithm recommendation content, and establish a dual review mechanism of "manual review and intelligent review" to improve review efficiency and review. At the same time, strengthen value guidance and ideological guidance, insist on educating people with culture and reason, integrate party spirit education into the whole process of technology application, avoid technology replacing ideas and form diluting connotation, and guide young party members to be firm, temper party spirit, and enhance political identity, to ensure that technology applications always serve the core goal of party school education, which is consistent with Hu Rong's research orientation on digital intelligence technology empowering party spirit education.

The third is to strengthen political-oriented publicity and education, and guide party workers, teachers, and students to correctly understand the significance of artificial intelligence empowering the training of party schools in colleges and universities. Regularly carry out political theory study and party spirit education activities to improve the political literacy and political ability of party workers and teachers, ensure that they can always adhere to the correct political direction in the process of intelligent construction, and integrate political requirements into teaching, management, and service. whole process; Guide students to study the party's innovative theory in depth through the intelligent learning platform, strengthen the cultivation of party spirit, improve political ability, and truly realize "the integration of learning, thinking and application, and the unity of knowledge, faith and action".

### 3.2. Innovating Teaching Mode and Constructing a New Scene of AI + Party Spirit Education

Centered on students, based on the growth characteristics

and learning needs of young party members, relying on artificial intelligence technology, promote teaching innovation in party schools in colleges and universities, build a new teaching scene of "AI + party spirit education", break the limitations of teaching, and improve the pertinence and fun of teaching, experience and effectiveness, fully reflecting the core requirements of personalized learning theory. "Internet +" education can change the teaching form and improve the effectiveness of party school cadre training [10].

Realize personalized training through accurate portraits, relying on big data and algorithm technology, comprehensively collect various data such as students' learning behavior, knowledge situation, interest preferences, learning progress, needs, etc., build an accurate and comprehensive "digital portrait" of students, and accurately grasp Students' knowledge shortcomings and learning needs. Based on the digital portraits of students, personalized matching and precise push of learning resources, course content, learning tasks, learning paths, and learning rhythms are realized. For example, for students with weak theoretical foundation, the intelligent system automatically pushes learning resources such as basic theoretical knowledge, interpretation of key and difficult points, and micro-class videos, and arranges personalized learning tasks; For activists who join the party, push it into party training courses, interpretation of party regulations, etc., to help them improve their awareness of joining the party and the cultivation of party spirit; For grassroots party workers, push content such as party affairs working methods and grassroots party building innovation cases to improve their working ability and professional level.

Create an immersive red education scene, use VR/AR, digital modeling, virtual venues and other artificial intelligence technologies to restore party history events, red footprints, revolutionary scenes, advanced typical deeds, etc., and build an immersive and interactive red education scene. Let students receive party spirit education "immersively" to enhance the sense of substitution, appeal and impact of learning. The Party Building Innovation Practice Center of Nanchang University has effectively improved students' learning participation and party spirit through VR immersive party lessons in practice. This practice is worth promoting. For example, the construction of virtual party history museums, virtual revolution memorial halls, etc., with the help of VR virtual reality technology, can allow students to immerse themselves into the revolutionary history scene and experience major party history events; The virtual interpretation scene of the red story allows students to gain an in-depth understanding of the red history, inherit the red gene, and strengthen the cultivation of party spirit through role-playing and interactive experience. At the same time, combined with the characteristics of colleges and universities, characteristic virtual teaching scenes, such as science and engineering colleges and universities can use digital modeling technology to restore the industrial construction scenes during the revolutionary period, and organically inte-

grate party spirit education with professional education; Liberal arts colleges and universities can base themselves on their own disciplinary advantages, red culture virtual discussion scenes, through immersive interaction, thematic seminars and other forms, guide students to deeply analyze the era connotation and practical value of red culture, and effectively improve the depth and effectiveness of party history learning and education. Building immersive learning scenarios through generative artificial intelligence technology is not only conducive to stimulating cadres' learning enthusiasm and creativity, but also conducive to systematically cultivating cadres' core literacy such as ideological leadership, cultural communication, reform driving force, and personality appeal [11].

Build an intelligent interactive and question-answering system, build intelligent teaching tools such as AI teaching assistants, intelligent question banks, and online discussion platforms to improve the convenience and efficiency of learning, and solve the problems of untimely Q&A, insufficient interaction, and lagging feedback in party schools. With its powerful information processing capabilities, AI assists teachers to sort out the context of knowledge, generate knowledge outlines and practice questions, and help the systematic transmission of basic knowledge [12]. AI teaching assistants can answer theoretical problems and learning problems encountered by students in the learning process in real time, and provide students with round-the-clock learning support; The intelligent question bank can rely on big data analysis technology to accurately capture students' knowledge weaknesses and learning needs, and push personalized practice questions and simulation test questions in a targeted manner; The online discussion platform can support real-time communication and discussion between students and teachers, share learning experience, discuss theoretical issues, create a good learning atmosphere, and enhance the sense of participation and effectiveness of learning.

With the help of artificial intelligence technology, improve the process assessment and evaluation system, collect data such as students' learning behavior, task completion, classroom interaction, assessment results, and party spirit performance throughout the process, and build a comprehensive assessment that combines process evaluation and result evaluation. Supervision is an effective measure to promote students to actively participate in ideological and political education. Party schools should formulate strict discipline norms, do a good job in education and supervision, and ensure the efficient and orderly development of ideological and political education [13]. Establish a scientific evaluation index system, include the learning process, learning effect, party spirit performance, practical ability, etc. into the evaluation scope, and use the combination of quantitative evaluation and qualitative evaluation to improve the scientificity and objectivity of evaluation; Using algorithm technology, conduct in-depth analysis of students' learning process data, accurately study and judge students' learning attitude, learning ability and party spirit im-

provement, provide students with personalized learning suggestions and improvement directions, and optimize training programs and teaching content for party schools Provide a scientific basis.

### 3.3. Promoting Smart Management and Improving Governance Efficiency

Based on the reality of party school management in colleges and universities, relying on digital governance theory, using artificial intelligence technology, promoting the transformation and upgrading of party school management in colleges and universities, and building an integrated smart party school platform will help provide information support for students' career traceability, work behavior planning guidance, etc., and realize management Digitalization, collaboration, and intelligence improve management efficiency and governance effectiveness [14]. Build an integrated smart party school platform, integrate various functional modules such as teaching management, student management, party affairs management, assessment and evaluation, data analysis, file management, technical support, etc., realize "one platform, whole process, intelligent" operation, and break the management The limitations of decentralized departments, cumbersome processes, and data fragmentation realize data sharing, process collaboration, and efficient management. The platform design must adhere to the principles of practicality, convenience, and safety, and meet the actual work of party schools in colleges and universities, and the actual needs of party workers, teachers, and students; Optimize the platform interface design, simplify the operation process, improve user experience, and ensure that users of different age groups and digital literacy can operate proficiently. Through the smart party school platform, party workers can realize all-round management of students, courses, assessments, files, etc., view relevant data in real time, and carry out precise management and scientific decision-making; Students can realize one-stop operations such as registration, course selection, homework submission, online learning, and score query, improving the convenience of learning and participation.

Optimize the process and service experience, rely on the smart party school platform, promote the optimization and simplification of various work processes of party schools in colleges and universities, and realize the whole process of registration, automatic class placement, intelligent attendance, homework submission, score statistics, certificate generation, file retention, and party affairs handling. Process automation, intelligence, manual operation, improve management efficiency and service level, reduce the transactional burden of party workers, so that they can devote more energy to core tasks such as education and teaching, and party spirit tempering. At the same time, establish a sound service feedback mechanism, and collect opinions and suggestions from students and teachers through the smart party school platform, online questionnaires, interactive exchanges, etc.

### 3.4. Strengthen Team Building and Consolidate Talent Support

Talents are the primary resource, and the compound teaching staff and management team are the core support for artificial intelligence to empower the party school of colleges and universities to further promote and achieve practical results. Based on the reality of party school team building in colleges and universities, strengthen the cultivation, introduction and use of compound talents, improve the team building mechanism, improve the team's digital literacy and human-machine collaboration capabilities, and solve the problem of shortage of compound talents.

Regularly carry out special training on digital literacy, establish a normalized and systematic digital literacy training mechanism, and carry out artificial intelligence technology application, smart party school platform operation, digital resources, data security management, algorithm application, etc. Special training to improve their digital skills, platform operation ability, intelligent teaching design ability and security prevention ability. The training content should be in line with the actual work, pay attention to practicality and operability, adopt "online and offline", "theoretical practice" and "case practice" training, and invite experts in the field of artificial intelligence, excellent compound teachers, and party affairs workers Carry out lectures and guidance to help students become proficient in the application methods of related technologies and tools. For example, carry out training on the operation of the smart party school platform, so that party workers and teachers can skillfully use the platform to carry out teaching, management and service work; Carry out data security management training to enhance the team's data security awareness and risk prevention and control capabilities. At the same time, encourage party workers and teachers to actively learn artificial intelligence-related knowledge and technology, participate in various digital skills competitions, training and exchange activities, and continuously improve their digital literacy and innovation capabilities.

Establish a "party affairs technology" dual-teacher team, promote the cooperation and co-construction of ideological and political teachers, party affairs workers and technical personnel from the school's information technology department in the party school of colleges and universities, form a work pattern with complementary advantages and coordinated efforts, and solve the problem of shortage of compound teachers. Clarify the responsibilities and division of labor of the dual-teacher team. Ideological and political teachers and party workers are responsible for grasping the political direction and core content of teaching and management, and providing theoretical support for party building and education and teaching; Technicians are responsible for providing technical support and assisting in intelligent instructional design, platform maintenance, digital resources, and technical problem solving. Common characteristic digital resources, design intelligent teaching scenarios, optimize the functions of the smart party

school platform, etc., to improve the effectiveness of empowerment work.

Improve incentives and mechanisms, incorporate intelligent teaching reform, digital resource construction, smart party building innovation, artificial intelligence technology application results, etc., into the assessment and evaluation system of college party school teachers and party affairs workers, and clarify evaluation indicators and weights. Establish talent training and channels, provide a broad space for compound talents, encourage them to carry out relevant research and practical innovation, and promote artificial intelligence to empower the training of party schools in colleges and universities to deepen.

### 3.5. Strengthen Security and Keep the Bottom Line of Risks

With the development of artificial intelligence, there will be ten core risks to human society [15]. Adhere to the principles of safety first, prevention first, and comprehensive management, based on the actual needs of artificial intelligence empowering party school training in colleges and universities, strengthen data security, ethical risk, and content security prevention and control, improve the security guarantee mechanism, improve the security prevention and control system, and keep The bottom line of safety ensures that the application of artificial intelligence technology does not deviate, cross the border, or deviate from the norm, and provides guarantee for the smooth and safe operation of the training work of party schools in colleges and universities empowered by artificial intelligence.

Improve the data security and privacy protection system, clarify data management responsibilities, implement the data security responsibility system, and refine data security responsibilities to specific positions and specific individuals to ensure that data security management has rules to follow and responsibilities to individuals. Strictly regulate data collection behavior, adhere to the principle of "legal, legitimate, and necessary", only collect personal information and learning data of students related to the training work of party schools, clarify the scope and purpose of collection, and collect after obtaining the consent of students, so as to eliminate collection, Illegal collection; Strengthen data storage security management, adopt advanced data encryption, backup, protection and other technologies, build a safe and reliable data storage platform, and prevent data leakage, loss, and tampering; Standardize the use of data, clarify the authority and scope of data use, strictly prohibit the abuse of data and the sharing of data in violation of regulations, and protect the personal privacy of students and the party's work secrets. At the same time, strengthen data security technical support, regularly carry out data security risk investigation and vulnerability scanning, timely discover and rectify data security hazards, and improve data security protection capabilities.

Establish an algorithm review and evaluation mechanism,

strictly review and regularly evaluate the algorithm model used by the smart party school platform, check whether the algorithm is biased, whether it complies with ethical norms, and whether it serves the goal of educating people, optimize the algorithm design in a timely manner, and avoid algorithm recommendations that lead to students. Problems such as narrow knowledge and limited ideological vision; Guide students to use intelligent learning tools correctly, avoid relying on technology, cultivate independent learning ability and independent thinking ability, and prevent technology from replacing learning and thinking; Strengthen the publicity and education of technical ethics, enhance the technical ethics awareness of party workers, teachers and students, guide them to consciously abide by technical ethics norms, stick to the bottom line of ethics, and jointly prevent technical ethics risks.

Improve the emergency response and supervision mechanism, and establish and improve the early warning and emergency response mechanism for various risks such as content security, network security, public opinion risk, and data security. Strengthen the supervision of the whole process of the smart party school platform, digital resources, teaching activities, management work, etc., establish a normalized supervision and inspection mechanism, carry out regular supervision and inspection, discover and rectify existing problems in a timely manner, and ensure that artificial intelligence empowers the training of party schools in colleges and universities Standardized, orderly and safe progress.

## 4. Conclusions

This article focuses on the research of artificial intelligence empowering the cultivation of party schools in colleges and universities. Based on the background of the intelligent era and the actual needs of party building in colleges and universities, it systematically sorts out the practical results of artificial intelligence in party school education, and analyzes the lack of deep integration of technology and education, and the homogeneity of content. Realities and causes such as lack of digital literacy of teachers, prominent security risks, and weak institutional guarantees. Studies have shown that artificial intelligence provides important technical support for teaching innovation, precise training, and intelligent management of party schools in colleges and universities, and is an effective path to solve the shortcomings of training and improve the education of party members. To promote the deep integration of artificial intelligence and the training of party schools in colleges and universities, we must always adhere to the fundamental principle of "the party school is surnamed the party", systematically implement policies from five aspects: political leadership, teaching innovation, smart management, team building, and security, improve long-term mechanisms, and strengthen risk prevention and control, continuously improve the pertinence and effectiveness of talent training in party schools in colleges and universities, and provide practical reference for the digital and intelligent transformation of party

schools in colleges and universities.

## Abbreviations

AI	Artificial Intelligence
VR	Virtual Reality

## Author Contributions

**Yu Rao:** Writing – original draft  
**Tianyu Li:** Investigation, Visualization  
**Xibin Wang:** Writing – review & editing  
**Benrong Liu:** Methodology

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