International Education Forum, 2026, Volume 4, Issue 4
http://ojs.bbwpublisher.com/index.php/IEF
Online ISSN: 2981-8605
Print ISSN 3083-4902

The Application of Artificial Intelligence in Ideological and Political Education

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Abstract: In today's era of rapid development of information technology, artificial intelligence (AI), as the core driving force leading industrial transformation and technological revolution, is profoundly changing all walks of life. As the core position for fostering virtue through education, ideological and political education is inevitably deeply influenced by AI technology. With data-driven, intelligent interaction and scenario reconstruction as its core advantages, AI has injected new vitality into ideological and political education. In this context, teachers should recognize the importance of AI and take the initiative to deeply integrate ideological and political education with AI technology. This not only meets the requirements of social development but also effectively improves students' professional literacy, guides them to establish correct values in their hearts, fully satisfies their inherent demand for all-around development, and enables students to better respond to various challenges in the ideological field. In this regard, this paper first elaborates on the significance of applying AI in ideological and political education, and then proposes a series of effective application strategies, aiming to provide certain references for relevant researchers.

Keywords: Artificial intelligence; Ideological and political education; Students; Application

Online publication: April 28, 2026

1. Significance of applying artificial intelligence in ideological and political education

1.1. Conducive to adapting to the era requirements of social development

With the advent of the digital intelligence era, AI technology has become the core support for promoting the high-quality development of the social economy. It has been widely applied in various industries, further improving service quality and production efficiency. As the main position for transporting high-quality talents to society, colleges and universities should keep up with the pace of the times and strive to cultivate high-quality compound talents needed in the new era. In carrying out ideological and political education, colleges and universities not only impart theoretical knowledge to students but also effectively enhance their innovative spirit and social responsibility, and guide them to establish correct values. The deep integration of

AI and ideological and political education aligns educational forms and content with social needs, promotes ideological and political education to quickly adapt to the development rhythm of the digital intelligence era, and comprehensively improves the effectiveness of ideological and political education [1].

1.2. Conducive to meeting the inherent requirements of students' all-round development

As the core subject of educational activities, students' all-round development is the fundamental orientation of educational work. The integration of AI technology can provide personalized learning plans and resource recommendations according to different students' cognitive characteristics, learning habits, and interest preferences. For example, through an intelligent learning analysis system, it can accurately capture students' weak links in ideological and political theory learning, such as misunderstandings of a certain theoretical concept or blind spots in attention to current political hot topics, and then generate customized learning paths, recommend relevant case analyses, extended reading materials, or interactive discussion topics to help students make up for deficiencies and deepen their understanding and application of knowledge points. At the same time, virtual simulation practical teaching supported by AI can create a variety of social scenarios, allowing students to make value judgments and behavioral choices in simulated moral dilemmas, social contradictions, and other scenarios. In practical experience, they can improve their ideological and political literacy, social adaptability, and ability to solve complex problems, helping students achieve all-around and personalized development [2].

1.3. Conducive to better responding to ideological challenges

With the widespread popularization and application of AI, the scope and speed of information dissemination continue to expand, and different ideologies and cultures interweave and blend. Undesirable ideological trends can easily penetrate into college students through algorithm recommendations relying on AI technology, exerting an adverse impact on their values, ideals, and beliefs. The application of AI technology in ideological and political education facilitates colleges and universities to build an ideological risk prevention and control system, conduct real-time monitoring and research on massive information among college students, effectively identify potential undesirable ideological trends, issue early warnings to teachers and students in a timely manner, and use algorithm recommendation technology to push positive ideological and political content to students. This enhances the attractiveness of mainstream ideology, improves their ability to distinguish right from wrong, strengthens their ideological defense lines, and thus better responds to ideological challenges, and overall improves the forward-looking nature of the school's ideological work [3].

2. Application strategies of artificial intelligence in ideological and political education

2.1. Scenario reconstruction: creating a new immersive education space

Affected by traditional educational concepts, ideological and political education scenarios fail to arouse students' sense of involvement. AI technology can break the limitations of time and space, create a new immersive education space with in-depth interaction and the combination of virtual and real, bringing unlimited possibilities for the reconstruction of ideological and political education scenarios, as shown in **Figure 1**. For example, teachers create a "Bay Area Red Culture VR Classroom" combined with the compiled textbook *Fundamentals of Artificial Intelligence*. In this classroom, by carefully restoring the 3D model

of Whampoa Military Academy, students only need to wear VR equipment to "enter" Whampoa Military Academy. They can view dynamic images, access historical documents by touching the 3D model with their fingertips, and even have cross-time and space conversations with AI virtual characters, deeply understanding the spiritual connotation of red culture and strengthening their ideals and beliefs [4]. In addition, teachers integrate the knowledge of the course *Python Language Programming* to write code to "unlock" Party history stories. For example, by writing simple interactive programs, Party history events are dynamically presented in the form of a timeline, with animated small stories interspersed. Students can not only systematically sort out the historical context but also clarify the logical relationship between various events, prompting them to transform from passive learning to active exploration, and realize the sublimation of ideas and the shaping of behaviors. In addition, teachers can use AI technology to build an online virtual learning community where students can play different roles, participate in activities such as simulated discussions on social hot issues and moral dilemma scenario choices. In interactive communication and practical experience, they can deepen their understanding and recognition of ideological and political theories, realize the organic unity of knowledge learning and value guidance, and improve their dialectical thinking ability and ability to solve practical problems, promoting their all-round development in a real sense [5].

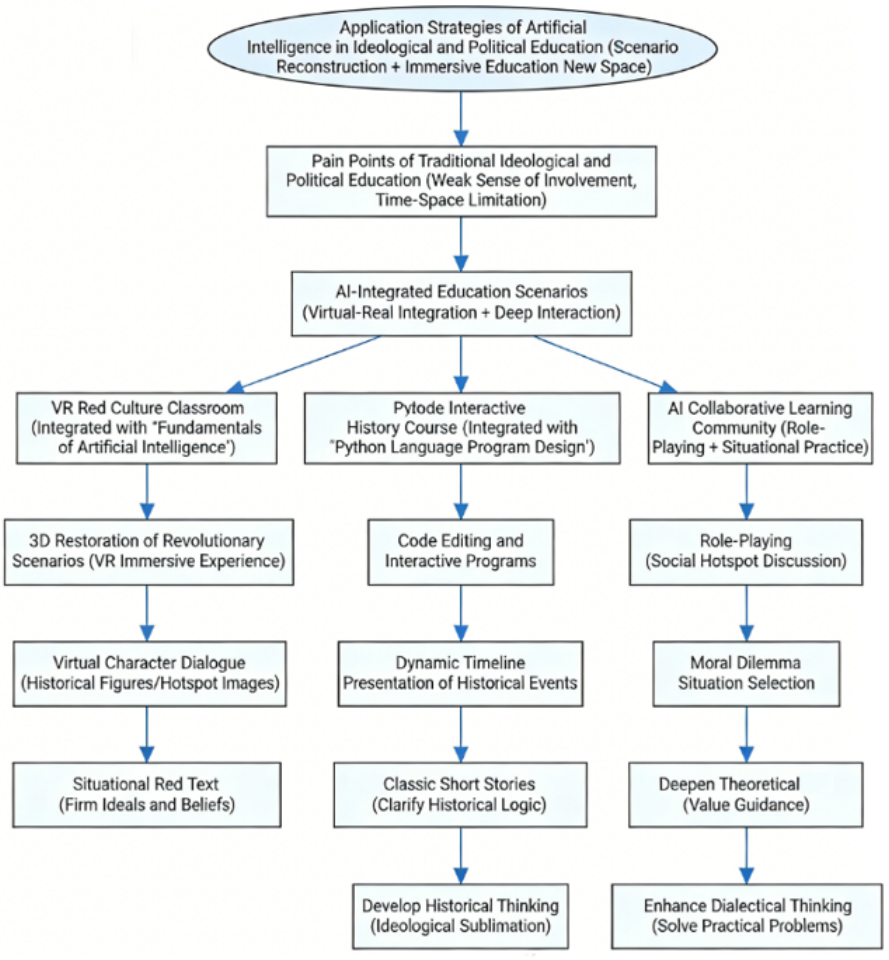

Figure 1. Process for creating a new immersive educational space

2.2. Model innovation: Building a new paradigm of precise and efficient education

In ideological and political education, due to obvious individual differences among students and distinct growth needs, teachers rely on the learning situation data of Chaoxing Platform and iFLYTEK emotional analysis technology to analyze students' learning behaviors, ideological dynamics, and interest preferences, build an ideological dynamics early warning system, and improve the accuracy of correlation analysis between "academic performance and participation in ideological and political activities." For example, when it is detected that the online learning time of individual students in ideological and political education is far lower than the average value, the early warning mechanism will be automatically triggered to push a potential learning confusion analysis report to teachers. At the same time, a one-on-one tutoring plan is formulated based on the analysis report, combined with students' professional characteristics, and the model stories in *Great Power Craftsmen* are independently promoted. Under the guidance of cases, students are encouraged to connect national development with personal growth. In addition, with the help of AI, teachers can implement differentiated teaching, accurately analyze each student's basic level and learning ability, and intelligently generate a stepped teaching plan to ensure that each student can find a learning rhythm suitable for themselves, comprehensively improving the pertinence of ideological and political education. In addition, build an intelligent Q&A assistant system through which teachers can answer students' questions in real time. The system can quickly give accurate and authoritative answers based on a massive knowledge base, quickly solve students' problems, form a complete education closed loop, and thus build a new paradigm of precise and efficient education [6].

2.3. Content Innovation: Constructing a new system adaptable to artificial intelligence

Against the background of AI empowerment, the innovation of educational content is mainly reflected in the transformation of production methods. Teachers use new technologies such as big data and natural language processing to deeply mine effective information in educational resources and intelligently integrate this content. For example, extract core viewpoints from policy documents, sort out the logical context of current news, etc., and automatically generate structured knowledge graphs and teaching material libraries, which can not only enrich teachers' teaching materials but also expand students' learning resources [7]. In addition, AI dynamically generates ideological and political education content combined with students' learning characteristics and educational scenarios, which is personalized to meet students' learning needs. For example, create a virtual teacher image through digital technology to explain abstract theoretical knowledge to students in the form of short videos and animations, improving the interest of ideological and political education content and effectively attracting students' attention; combined with big data analysis, intelligently push the latest policy interpretations and typical cases, promoting ideological and political education to resonate with the times. In addition, teachers use AI technology to present ideological and political education content in multiple modalities, such as animations, audios, AI videos, and documents combining pictures and texts, generating three-dimensional ideological and political education content to fully meet students' learning needs in different educational scenarios. At the same time, VR ideological and political courses can be developed relying on AI technology, allowing students to experience and understand educational content in virtual scenarios, effectively enhancing their recognition of theoretical knowledge, and thus comprehensively improving the sense of the times of ideological and political education content [8].

2.4. Optimization of evaluation: Constructing an "AI + Ideological and political education" evaluation system

In the past ideological and political education evaluation, teachers mostly relied on summative assessment and subjective judgment, resulting in a lack of objectivity in evaluation results and failure to fully reflect students' learning performance and changes in ideological dynamics. In this regard, teachers can give full play to the advantages of AI to construct an "AI + ideological and political education" evaluation system, innovate and optimize teaching evaluation methods, and improve the comprehensiveness and objectivity of teaching evaluation, as shown in **Figure 2**. For example, teachers use AI technology to track various performances of students in ideological and political education in real time, such as test scores, homework completion quality, online interaction, and learning duration, forming the basis of process-oriented evaluation; they can also use natural language processing technology to analyze various text contents, such as experiences and insights, papers, and discussion forum speeches, conduct in-depth mining of the emotional attitudes, value orientations, and ideological dynamics contained therein, and realize qualitative evaluation of students' values and in-depth cognition. In addition, teachers introduce blockchain technology to upload these multi-dimensional data in the real-time evaluation chain to ensure that evaluation results and learning behaviors are traceable and not easy to be tampered with, establishing true and credible ideological and political literacy growth files for students. In addition, teachers use AI to summarize and analyze historical evaluation data, automatically generate personalized learning evaluation reports, clarify students' strengths and weaknesses in ideological and political education, and push learning resources and improvement suggestions to students, thus forming a closed loop of "evaluation — feedback — improvement", making the evaluation system more scientific and adaptable, comprehensively improving teaching evaluation effectiveness, and thus realizing dynamic and regular monitoring of students' ideological behaviors, and facilitating teachers to targeted improve ideological and political education programs.

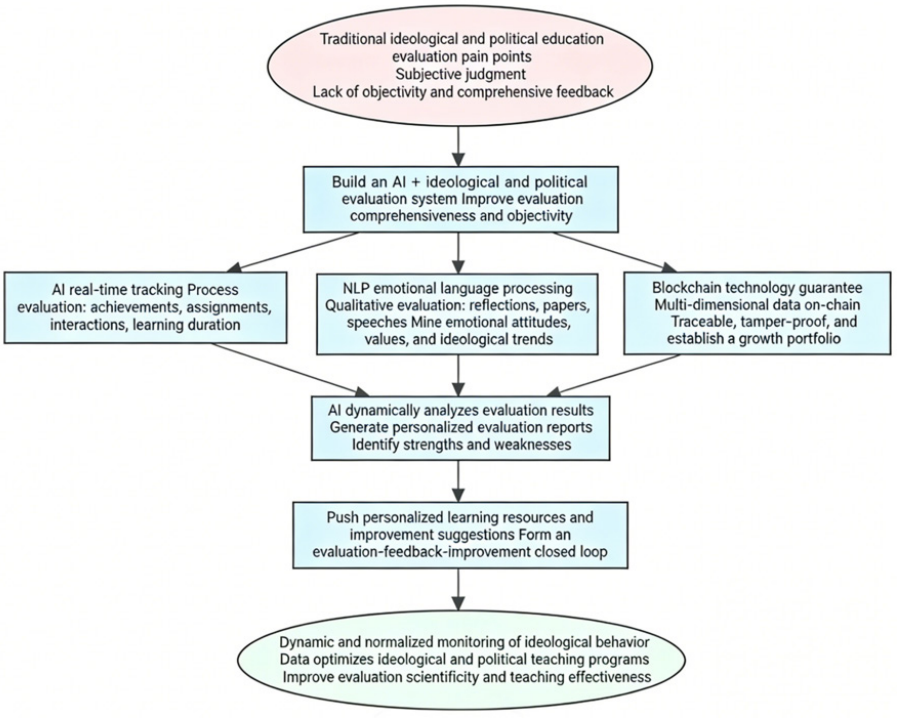

Figure 2. Process for building an educational evaluation system combining AI and ideological and political education

2.5. Strengthening teachers' competence: Enhancing teachers' technology application capabilities

From the perspective of AI, the teaching ability of ideological and political teachers determines the overall effect of ideological and political education. Therefore, colleges and universities need to attach importance to improving the comprehensive teaching ability of in-service teachers to enhance the overall teaching effect. In this educational context, AI is integrated into ideological and political education, which means teachers need to have certain application capabilities and cutting-edge teaching ideas, so as to give full play to the application value of AI technology in the teaching process and further improve the teaching effect. In this regard, colleges and universities need to start from the following points. First, develop an "AI literacy training package." Schools use the "AI literacy training package" to focus on cultivating teachers' abilities, such as data dashboard analysis and virtual assistant script writing. After teachers have these abilities, they can learn how to write scripts according to teaching objectives, set automatic Q&A logic, personalized resource push rules, etc., by operating the virtual assistant platform. At the same time, they can analyze students' learning behavior data through the data dashboard, such as classroom interaction frequency, knowledge point mastery, and ideological and political viewpoint tendencies, so as to accurately grasp teaching priorities and students' ideological dynamics. Second, carry out an "AI literacy improvement plan." Schools and the School of Marxism jointly carry out an "AI literacy improvement plan." The training content includes basic AI knowledge, operation and application skills of mainstream educational AI tools, and teaching design and innovation methods of ideological and political education in the AI era, further improving teachers' AI literacy [9]. Third, actively adapt to the development of the times and set up an "online famous teacher studio." With the help of this platform, famous teachers inside and outside the school can provide online teaching guidance, providing more learning and exchange opportunities for in-service ideological and political teachers, enabling them to master more teaching skills related to AI, thereby improving their teaching ability, promoting the deep integration of ideological and political education and AI technology, and continuously improving the level of education [10].

2.6. Avoiding risks: Building a safety defense line for technology application

While AI is applied in ideological and political education, it also faces potential risks such as data security and ethical norms. This is an important prerequisite for the deep integration of the two, and must be highly valued and effectively avoided. Colleges and universities need to establish and improve the safety management system for AI application, clarify the boundaries of data collection, storage, and use, standardize the collection process of students' personal information, use encryption technology to protect sensitive information such as students' ideological dynamics and learning data, put an end to data leakage, abuse and other problems, and protect students' privacy rights and interests. At the same time, strengthen AI ethics education, guide ideological and political teachers to establish a correct concept of technology application, avoid over-reliance on technology while ignoring humanistic care, and prevent algorithmic bias from affecting educational equity. For example, in the push of learning resources, avoid students' limited vision due to algorithm solidification, ensure that students of different levels and backgrounds can obtain fair learning opportunities, and ensure that AI always serves the fundamental goal of fostering virtue through education in ideological and political education. In addition, establish a risk investigation mechanism for technology application, regularly conduct safety inspections on AI tools and platforms used in ideological and political education, timely discover and solve technical vulnerabilities, content deviations, and other

problems, guide students to correctly understand the role of AI, and consciously resist the adverse effects brought by technology application. At the same time, a risk assessment team composed of ideological and political teachers, information technology personnel, and legal experts can be set up to conduct full-cycle tracking and evaluation of AI ideological and political application projects, conduct special audits on the value orientation of virtual simulation scenarios and the objectivity of intelligent evaluation, and timely calibrate application deviations. It is also necessary to strengthen the cultivation of students' media literacy and information discrimination ability, explain the characteristics of information dissemination in the AI environment in combination with ideological and political course content, guide students to rationally view algorithm-recommended content, consciously resist the penetration of undesirable ideological trends, and allow AI to provide solid support for the high-quality development of ideological and political education under the premise of safety and standardization, promoting the organic unity of technology empowerment and value guidance.

3. Conclusion

In summary, the application of AI in ideological and political education is an inevitable trend for the education field to adapt to the times and embrace technological change, bringing unprecedented development opportunities for ideological and political education. In this regard, educators can start with strategies such as scenario reconstruction to create a new immersive education space, model innovation to build a new paradigm of precise and efficient education, content innovation to construct a new system adaptable to AI, and strengthening teachers' competence to enhance teachers' technology application capabilities, so that AI can truly become a powerful engine for improving the quality and level of ideological and political education, and promote ideological and political education to radiate new vitality in the digital intelligence era. In the future, with the continuous development and maturity of AI technology, it is necessary to further strengthen research and exploration on its ethical norms, data security, and humanistic care, ensure that the application of AI in the field of ideological and political education always moves in the right direction, and ultimately achieve the educational goal of cultivating era newcomers who can shoulder the responsibility of national rejuvenation.

Project

Funding

Special Research Project on Party Building and Ideological and Political Work in 2025,
Project Name: Application of Artificial Intelligence and Big Data in Ideological and Political Education Work, Project Number: HMDJSZ07

Disclosure statement

The author declares no conflict of interest.

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