

# ***The Potential Application of ChatGPT in Higher Education Management***

**Yilin Li<sup>1,a,\*</sup>**

*<sup>1</sup>School of Physics and Electrical Engineering, Jiaying University, 100 Meisong Road, Meijiang District, Meizhou City, China*

*a. 2016120403@jou.edu.cn*

*\*corresponding author*

**Abstract:** ChatGPT is a powerful AI model that can play a role in higher education management. It facilitates easy access to a wide range of learning resources for students by providing instant answers and feedback. Additionally, ChatGPT can personalize monitoring of students' learning needs and provide customized learning resources to enhance their learning outcomes. When combined with other artificial intelligence technologies, ChatGPT can assist students in problem-solving and provide course selection and academic planning advice. For teachers, ChatGPT can serve as an intelligent assistant by providing teaching resources, assignment evaluations, helping organize instructional activities, and offering real-time feedback and prompts. At the university management level, ChatGPT can also assist administrators in decision analysis and prediction. However, the application of ChatGPT still faces challenges such as technology, privacy, and security. It requires strengthened monitoring, protection of personal privacy, and the establishment of relevant guidelines and standards. ChatGPT has vast potential in higher education management, offering personalized and real-time support to enhance efficiency and learning outcomes. Nevertheless, it is crucial to address issues like privacy protection, data security, and technical disputes, ensuring its lawful, secure, and reliable usage. ChatGPT holds both potential and challenges in higher education management, necessitating further research and development. This study explores ChatGPT's application in higher education management, proposing development directions and improvement suggestions. It aims to enhance efficiency and offer real-time assistance to students and educators. Addressing privacy, security, and technical concerns is crucial for integration. Tailoring ChatGPT to meet diverse needs of learners and educators is emphasized.

**Keywords:** artificial intelligence, higher education, education management

## **1. Introduction**

In recent years, ChatGPT has made significant progress in various fields, including customer service and intelligent assistants. However, its application in higher education management is relatively limited, despite some attempts and cases.

Nevertheless, ChatGPT has already demonstrated notable advancements across multiple areas. Its potential benefits in higher education management warrant further exploration and research. By providing instant answers and feedback, ChatGPT facilitates easy access to extensive learning

resources, promoting student-centered learning environments and driving transformative change within higher education [1].

The integration of ChatGPT with other artificial intelligence technologies opens up possibilities for immersive learning experiences that enhance student engagement. Through dialogue-based interactions, ChatGPT can personalize monitoring, analyze individual learning needs, and deliver tailored learning resources. This holds great potential for providing students with high-quality and personalized support, ultimately enhancing their learning outcomes.

Moreover, language models like ChatGPT introduce opportunities for redefining traditional educational approaches. Future assessments should encompass not only academic knowledge but also creativity, critical thinking, teamwork, problem-solving abilities, and social perspectives and values [2].

Comprehensive evaluation methods are necessary to fully understand students' potential and abilities. With the continuous development of technology, Artificial Intelligence has gradually permeated various industries, including higher education management. As the complexity and scale of higher education management work continue to increase, improving efficiency and optimizing service quality have become urgent issues. The rapid advancement of AI technology has brought new possibilities to higher education management. ChatGPT, as a form of AI application, has made significant progress in areas such as customer service and intelligent assistants in recent years. As a natural language processing model with conversational abilities, ChatGPT has garnered widespread attention due to its potential applications in higher education management. By engaging in real-time conversations with users, ChatGPT can provide personalized support and guidance to students, teachers, and administrators, as well as offer instant question-and-answer and feedback. Furthermore, ChatGPT can perform data analysis and predictions to assist administrators in decision-making and planning. However, there is currently limited research on the application of ChatGPT in higher education management. Therefore, this study aims to explore the potential areas, advantages, and challenges of applying ChatGPT in higher education management through a comprehensive review of relevant literature. It also aims to provide scientific decision-making basis for higher education administrators, promoting more effective, convenient, and intelligent applications of AI technology in higher education management. While the current application of ChatGPT in higher education management is still limited, its potential benefits and application areas warrant exploration. For instance, ChatGPT can be employed for academic tutoring and consultation, offering immediate question-solving and guidance to students. Additionally, it can contribute to the design and development of online courses, providing teachers with high-quality and personalized teaching resources. By leveraging ChatGPT, universities can enhance the efficiency of enrollment and curriculum planning processes. Nevertheless, it is crucial to acknowledge and tackle the obstacles and constraints related to the promotion and integration of ChatGPT in the realm of higher education administration.

## **2. Application of ChatGPT in Higher Education Management**

### **2.1. Personalized Student Support**

For a long time, fostering students' innovative spirit and practical ability has been the focus of national quality education. The research results of "Chinese Students' Development Core Literacy" indicate that the main target of core literacy includes cultural foundation, independent development, and social participation, aiming at cultivating "comprehensively developed people", which is comprehensively manifested in six aspects of humanistic accomplishment, scientific spirit, learning ability, healthy life, responsibility, and innovation.

It can be seen that the key to implementing core literacy is to cultivate students' ability to learn and promote their independent development. As the development of educational informatization enters a new stage with the core demand of effectively supporting teaching and learning and promoting students' personalized development, it is necessary to provide new learning methods that meet the individual needs of learners to support their independent development. Personalized learning as an advanced stage of the deep integration of technology and education can enable learners to fully, freely, and harmoniously develop their abilities and personalities in the process of learning, thus enhancing their abilities and personalities [3].

ChatGPT, as an intelligent assistant, can provide personalized learning guidance, course recommendations, and psychological counseling to students. Students can engage in conversations with ChatGPT to obtain information and advice that cater to their specific needs.

In the field of higher education, ChatGPT plays a significant role by offering personalized learning and psychological counseling services. Students receive tailored advice, answers to their questions, personalized resources, and course recommendations, empowering them to access information and guidance at any time and fostering comprehensive student development. It is crucial to strike a balance between artificial intelligence and human wisdom to ensure the safe, effective, and sustainable application of ChatGPT while protecting privacy and enhancing academic quality. This requires careful consideration of ethical considerations and data protection measures [4].

## **2.2. Tools for Assisting Teachers in Student Management**

ChatGPT serves as a valuable tool for teachers, assisting them in selecting instructional resources, designing lesson plans, and providing innovative teaching methods. By leveraging ChatGPT, teachers can improve their teaching effectiveness and enhance the overall student experience.

In the realm of higher education management, ChatGPT has tremendous potential in alleviating the workload of teachers and promoting student-centered teaching models. Operating within a "human-machine co-teaching" environment, teachers can access resources, grade assignments, evaluate students, and conduct research more efficiently, thereby reducing stress and enhancing productivity. ChatGPT enhances teachers' capabilities and supports personalized instruction. However, it is essential for teachers to recognize the distinctions between machines and humans, understand students' individual situations, teach according to their aptitudes, and guide their learning in a holistic manner. The integration of technology should supplement and augment the teaching process rather than replace it entirely [1].

## **2.3. Decision Support for Management**

ChatGPT is equipped to perform data analysis and prediction, providing decision support for higher education administrators. Its ability to process large amounts of data, extract valuable information, and facilitate the formulation of more scientific decisions and plans is of immense value.

In the era of artificial intelligence, higher education managers can leverage the power of big data to record students' learning trajectories, social interactions, classroom performances, extracurricular activities, and other relevant information, thereby gaining a more comprehensive understanding of student development. Through in-depth data mining and analysis, ChatGPT enables managers to derive reliable insights, facilitating informed educational decision-making and effective management strategies. By embracing data-driven approaches, institutions can streamline administrative processes, enhance efficiency, and optimize resource allocation [5].

**Application of ChatGPT in Smart Libraries** While smart libraries have made considerable progress, there is still much untapped potential waiting to be explored. ChatGPT technology is expected to

revolutionize the landscape of library information resource management and intelligent space construction. Its application brings numerous benefits and opportunities for improvement.

First and foremost, ChatGPT can analyze document content, add relevant tags and classification numbers, significantly improving the efficiency of literature resource management. Furthermore, it can help calibrate bibliographic information and address the challenging task of integrating heterogeneous resources, leading to more organized and accessible library collections. Additionally, ChatGPT enhances navigation functionality, providing users with more accurate services and expediting their access to valuable resources. This revitalizes library services, optimizing information resource management, and elevating the overall user experience. By continuously exploring the potential of ChatGPT in smart libraries, we can unlock new horizons for resource accessibility and knowledge dissemination [6].

### **3. The Potential Benefits of ChatGPT in Higher Education Management**

#### **3.1. Provide Intelligent Decision-making Suggestions**

Artificial intelligence possesses inherent advantages in decision-making due to its logical thinking abilities, powerful computing capabilities, and rationality. Looking ahead, university data centers may become integral components of decision support systems, providing institutions with expeditious and reliable decision-making data.

**Transformation of the Workforce in Student Educational Management:** The integration of ChatGPT into routine tasks, standardized processes, and educational support functions may lead to disruptions within the education support staff, administrative staff, and logistics personnel sectors. Moreover, ChatGPT can potentially deliver personalized learning guidance predicated upon students' learning data and behavioral patterns.

**Cultivating the ability to adapt to and utilize new technologies:** The future of educational management hinges upon the collaboration and support of artificial intelligence, marking a new era of harmonious human-machine cooperation.

ChatGPT offers an array of personalized support and guidance services to students, teachers, and administrators, such as immediate question answering and feedback. Additionally, it possesses the capability to analyze data and make predictions, aiding administrators in their decision-making processes and strategic planning. However, extensive research on the potential applications of ChatGPT in higher education management remains limited. Hence, the objective of this study is to explore the various areas of application, advantages, challenges, implementation strategies, and methods of integrating ChatGPT into higher education management. This will provide educational administrators with valuable insights to facilitate informed decision-making and promote intelligent higher education management. The amalgamation of artificial intelligence technology and education presents both opportunities and challenges, necessitating active responses from universities to foster development in information technology. Traditional standardized talents face mounting competition pressures, calling for improvements in knowledge systems. Consequently, teachers must shoulder more responsibilities and adopt motivational roles to facilitate the transformation of the teacher-student relationship [7].

ChatGPT demonstrates immense potential in the realm of higher education management. Firstly, this technology provides valuable data support to universities, enabling the scientific development of university governance. By leveraging the vast amounts of learning and teaching data collected from students and teachers, universities can achieve precise, scientific, and meticulous educational decision-making, significantly reducing information acquisition costs and enhancing management transparency. Utilizing ChatGPT as a tool for data analysis and interpretation empowers institutions to gain critical insights into student performance, needs, and overall progress. This data-driven

approach contributes to evidence-based decision-making, enhancing teaching quality and optimizing resource allocation [1].

### **3.2. Improving the Efficiency of University Management**

Secondly, ChatGPT can alleviate the administrative burden and assist in streamlining simple management decisions, leading to improved administrative efficiency. By automating routine tasks and providing decision support systems, ChatGPT enables administrators to focus on more complex challenges and strategic initiatives that require human intelligence and expertise. Furthermore, the integration of data analysis and prediction capabilities within ChatGPT enables the establishment of intelligent early warning systems. These systems promptly detect potential issues and facilitate timely interventions, minimizing the impact of delayed problem discovery. The combination of human intelligence and artificial intelligence through ChatGPT enhances organizational resilience and responsiveness [2].

To fully realize the potential benefits of ChatGPT, universities need to embrace organizational transformation, foster a culture of innovation, and establish diversified management entities and intelligent systems. Teachers can leverage intelligent devices and platforms to guide students' holistic development, offering personalized services tailored to individual needs. Parents can actively participate in student management through integrated terminals, fostering closer collaboration between home and school. Businesses and industry partners can contribute to evaluating student competencies and skills through dedicated platforms, enhancing the alignment between education and industry requirements. Meanwhile, intelligent tutoring systems, grading systems, and early warning mechanisms continue to evolve, providing comprehensive support for educators and learners alike. By harnessing the power of artificial intelligence and leveraging networked data, universities can unlock the full potential of educational management, enhance institutional effectiveness, and cultivate future talents equipped with the essential skills and knowledge for success [7].

### **3.3. Handling Complex Tasks in Management**

ChatGPT, as a natural language processing model with conversational capabilities, can provide personalized services, real-time conversations, instant feedback, and potential advantages to improve management efficiency and quality, bringing new possibilities to this field. As the complexity of higher education management tasks and the scale of operations continue to expand, AI technology's rapid development has provided new solutions for higher education management. ChatGPT has made significant progress in customer service and intelligent assistant fields and has garnered widespread attention in higher education management.

The prospects for the application of artificial intelligence in university teaching records management are broad. It not only makes records management work less tedious, allowing record workers to focus more on record compilation and research, and fully tap into the value of records, but also improves the efficiency and quality of university teaching records management, enhancing the experience of records usage. However, there are challenges in the specific application process of new technologies, such as security concerns in records management, shortage of professional talents, and high costs of implementation. How to enhance technological protection capabilities, cultivate professional talents, and reduce application costs are the main issues currently faced and will also be the directions and hotspots for future research. Therefore, as practitioners in records management, we need to identify key problems and conduct in-depth exploration and research to ensure the practical application of artificial intelligence technology in university teaching records management [8].



## **4. Challenges and Suggestions of Applying ChatGPT to University Management**

### **4.1. Ethical Risks of ChatGPT in Educational Management**

The autonomous nature of ChatGPT raises legitimate concerns regarding its usage in educational management. It is important to recognize that there are potential risks associated with the use of ChatGPT, such as the provision of inappropriate or insufficient recommendations, which may result in users making incorrect decisions. To mitigate these risks, it is crucial for higher education management departments to establish clear guidelines and standards that restrict the scope of ChatGPT's application, ensuring its efficacy and safety within the context of educational management.

At present, ChatGPT can only be utilized on OpenAI servers; however, future developments may see similar products and derivatives deployed in a centralized manner. Yet, the ongoing COVID-19 pandemic has highlighted the vulnerabilities of relying solely on cloud services for online education. The dependence of schools on networks and servers makes them susceptible to disruptions caused by factors like earthquakes in remote areas or construction activities near their premises [5].

Furthermore, there are concerns related to the ethical norms governing the processing of personal information by ChatGPT. Given ChatGPT's extensive collection and processing of personal information, there is a risk of privacy breaches and the dissemination of inaccurate information concerning the flow of personal data among data subjects, collectors, and users. The utilization of user information and behavior data by ChatGPT for big data analysis also heightens the risk of personal information misuse, thereby enabling illicit activities. Notably, it is worth mentioning that the "Personal Information Protection Law" in our country does not explicitly stipulate punitive measures for ChatGPT's illegal handling of personal information, which to some extent reduces the legal ramifications associated with privacy infringements committed by ChatGPT [1].

To address these issues, several measures need to be taken when utilizing ChatGPT for content generation. First and foremost, it is crucial to implement protective measures to safeguard intellectual property. Additionally, stringent checks ensuring the legality of generated outputs are necessary to prevent potential misuse. Moreover, continuous monitoring and supervision are essential to identify and rectify any ethical or legal transgressions. Governments should proactively establish standard regulations to govern the use of AI technologies like ChatGPT, while research institutions and publishers should employ these technologies in a transparent, responsible, and honest manner. Furthermore, technology companies should actively prioritize the development of secure, controllable AI technologies that cater to the specific needs of teachers and students, guaranteeing the protection of privacy and data security [9].

### **4.2. Legitimate Concerns of ChatGPT in Educational Management**

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#### **4.3. Potential Application of ChatGPT in Higher Education Management**

AI technology harbors vast potential to facilitate knowledge production and solution verification within higher education management. By deeply integrating humans and machines, cognitive abilities and problem-solving skills can be enhanced, thereby driving development. Nonetheless, there are challenges associated with human status, AI authenticity, algorithmic bias, technological ethics, and laws. To tackle these challenges, researchers must acquire a comprehensive understanding of AI and comply with ethical standards, fostering harmonious coexistence between humans and machines. It is imperative for governments, industries, companies, and universities to establish guidelines to ensure that AI aligns with mainstream values. Universities should actively integrate themselves into the technological innovation network, advocating for the fusion of AI and academic writing, thereby facilitating sustainable development [10].

The convergence of artificial intelligence and education expedite the modernization of student management. Deploying artificial intelligence to handle student affairs streamlines efficiency, reduces labor costs, and affords administrators additional time for learning and personal growth. The integration of artificial intelligence and student affairs management leads to cost reduction and enhanced work refinement. Particularly under the normalization of the epidemic, leveraging network technology to conduct online student affairs becomes a feasible option. Existing theories and practices lend support to the introduction of artificial intelligence technology in schools, emancipating staff members and fostering reforms in student management [11].

**Integration of Information Technology in Student Management:** In an era characterized by highly developed artificial intelligence, information technology plays a pivotal role in bolstering the efficiency of student management. Administrative tasks related to student records management, campus atmosphere creation, dormitory management, scholarships and grants management, campus security, and risk identification can be significantly enhanced through data-driven support. This not only facilitates daily management operations but also informs policy-making decisions.

**Quantitative Evaluation of Student Educational Achievements:** Traditional educational evaluation heavily relies on experience and qualitative analysis. However, current trends emphasize data-driven quantitative evaluation, thus furnishing decision-makers with more robust data support.

## 5. Conclusion

In the context of rapid technological development, the integration of education and artificial intelligence has become an irreversible trend. How to utilize artificial intelligence as an educational and management tool in early childhood education poses a significant challenge for the future of the education system.

ChatGPT showcases enormous potential for application in higher education management, but it also faces challenges such as technology, privacy, and security. Regular monitoring and calibration, protection of personal privacy, and the establishment of clear guidelines and standards are necessary to address these challenges. ChatGPT has broad prospects in the field of university management. It can provide personalized, real-time support for education and management to enhance efficiency and learning outcomes. Through intelligent dialogue with students, ChatGPT can provide answers, suggestions, and feedback based on their needs, fostering new approaches and ideas for learning and decision-making.

Regarding student management, ChatGPT can assist students in resolving doubts, guide course selection, provide academic planning advice, and support mental health. Academic departments can use ChatGPT to handle student consultations and questions, reducing workload and improving service quality and efficiency.

Furthermore, ChatGPT can help students in self-directed learning and self-assessment by offering personalized learning resources and recommendations through intelligent interaction, promoting learning interest and motivation.

For teachers, ChatGPT can serve as an intelligent assistant, providing teaching resources, course design recommendations, and assignment evaluations. It can also assist teachers in managing course information, organizing teaching activities, and providing real-time feedback and prompts to enhance teaching effectiveness and interactivity.

At the level of university management, ChatGPT can assist administrators in decision analysis, data mining, and forecasting, providing intelligent guidance for school development. It can process vast amounts of data and information, extracting useful insights to offer timely decision support for administrators.

In summary, ChatGPT has extensive applications in university management. Through interactions with students, teachers, and administrators, it can provide personalized educational and management support, enhancing efficiency and effectiveness in learning and management. However, during the process of promoting application, we also need to pay attention to addressing issues such as privacy protection, data security, and technological disputes, ensuring the legal, safe, and reliable use of ChatGPT.

The aim of this study is to explore the application potential of ChatGPT in higher education management and propose directions for future development and improvement. Firstly, as an intelligent decision support tool, ChatGPT can assist administrators in making accurate and reliable decisions and planning through data analysis and predictive capabilities. ChatGPT demonstrates great value in higher education management through aspects such as intelligent decision support, personalized learning support, administrative optimization, emotional interaction and human care, and interdisciplinary collaboration.

Future research should focus on optimizing algorithms and models to improve the accuracy and reliability of ChatGPT in decision support. Secondly, ChatGPT can provide personalized learning support and guidance based on student needs and interests, offering a more personalized educational experience. Further refining the functionalities and application scenarios of ChatGPT in personalized learning is a future research direction to better meet the needs of students.



Additionally, by integrating with academic systems and providing real-time course information and course selection assistance, ChatGPT can optimize administrative processes, enhance efficiency, and improve service quality. Furthermore, it is necessary to strengthen interdisciplinary collaboration, integrating expertise from fields such as education and psychology. We also encourage researchers to address ethical issues such as user privacy protection and data security, ensuring the sustainable development of ChatGPT.

In conclusion, future research should focus on exploring innovative methods and strategies to adapt to the ever-changing educational environment and demands. Through our collective efforts, ChatGPT will become an important tool and resource for higher education management, enhancing efficiency and service quality in educational administration.

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