Research on the Impact and Countermeasures of ChatGPT on Graduate Ideological and Political Education Work

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Abstract: This paper contends that ChatGPT, as a cutting-edge natural language generation model, plays a significant role in graduate ideological and political education work. The article examines its impact from both positive and negative perspectives. On the positive side, ChatGPT provides personalized learning support, stimulates innovative thinking, and enhances self-directed learning abilities. However, excessive reliance on ChatGPT could weaken critical thinking, raise ethical concerns, reduce social interactions, and result in cultural biases. To address these issues, the paper recommends establishing usage guidelines, strengthening critical thinking, cultivating ethical awareness, promoting comprehensive skill development, and implementing collaborative oversight mechanisms. These measures contribute to fostering graduate students with critical thinking and ethical judgment, maximizing the constructive impact of ChatGPT in education.

1. Introduction

The all-round development of postgraduate education in China began with the formal establishment of the degree system in 1980. At that time, the postgraduate education in Europe and the United States was quite mature and developed, and we gradually entered the track of standardized, stable and healthy development in the process of catching up. The ideological and political education of graduate students is an important part of the ideological and political education in colleges and universities, which has always been highly valued by the government. Whether graduate students can recognize their responsibility and mission for this era; Whether it can effectively shoulder the heavy responsibility of social construction; Whether you can set an example for the society with a firm political stance, excellent moral quality and good comprehensive quality; Whether we can make due contributions to the society with excellent professional level and healthy psychological quality has become a difficult problem and an important task for Ideological education in colleges and universities [1]. At present, Socialism with Chinese characteristics is in the decisive stage of building a well-off society in an all-round way and entering a new era. The country needs innovative talents with firm political stance, both ability and political integrity and all-round development more urgently than ever before. Under this background, colleges and universities all over the country pay more attention to the Ideological

education of college students, and have achieved gratifying results, but there are still weak links in the Ideological education of graduate students [2-3]. This paper analyzes the influence of ChatGPT on graduate students' Ideological education. As a new media, the biggest difference between ChatGPT and traditional media is that traditional media mainly provides information services to satisfy users' thirst for knowledge; ChatGPT, on the other hand, mainly provides answers to questions or solutions to problems, improving users' efficiency or benefits [4]. Therefore, ChatGPT will be able to promote the development of graduate ideological and political education to a certain extent and achieve encouraging results, but "graduate ideological education is still a relatively weak link in college students' ideological education" [5]. Nowadays, the expansion of graduate student scale and the transformation of training and management models make it urgent for universities to establish a graduate ideological education system.

2. ChatGPT: A Multifaceted Examination

The rapid development of ChatGPT has not only brought technological changes to the artificial intelligence industry, but also brought diversified impacts on economy, society and life. "Risk" and "opportunity" often coexist, and the appearance of ChatGPT has also brought new development opportunities to various industries related to it in China. All existing media are only tools for information collection, processing, storage and dissemination, and there is no intelligence or thought. The relationship between people and media is the relationship between people and commodities, and the relationship between consumption and being consumed. ChatGPT, with its powerful algorithm, calculation power and calculation amount, has general intelligence and thinking, language and writing ability that exceeds that of ordinary people and even professionals[6]. In addition to the relationship between consumption and being consumed, the relationship between people and ChatGPT also has a virtual "friend" relationship, "partner" relationship and even "emotion" relationship different from any other media. In the era of digital economy, will ChatGPT strictly follow the relevant national legal requirements in data collection, use, sorting and sharing, whether there is the risk of revealing personal privacy, business secrets and internal data, and whether it will lead to unfair competition or monopoly in the industry driven by interests. As shown in Figure 1, artificial intelligence is different from traditional machines, and gradually has the ability to replace human beings in the core knowledge exploration and management system, which may lead human beings to withdraw from productive labor on a large scale, especially for jobs with high repeatability and deep programming, which will probably be replaced by ChatGPT.In a word, if we don't preset a correct orientation of social ethics for ChatGPT now, it may unconditionally obey the requirements of users, even for malicious purposes. ChatGPT does not need to establish a distribution or sales network like traditional paper media, nor does it need to establish a transmission or transmission base station and lay network wiring like traditional electronic media. It only needs to search the website of ChatGPT on Google or directly enter the relevant website to jump directly.Based on the importance of ideological and political education for graduate students in colleges and universities, it is necessary to explore the various impacts of ChatGPT, a new thing, on graduate students, and how to take effective countermeasures. On the one hand, we should actively use the advantages of ChatGPT to carry out work, and on the other hand, we should remove its adverse effects on graduate students.

Figure 1: ChatGPT

3. The Impact of ChatGPT on Graduate Ideological and Political Education Work

As an avant-garde natural language generation model, ChatGPT undeniably exerts a significant influence on graduate ideological and political education work. This paper will expound on both its positive and negative impacts, addressing the following dimensions:

3.1 Positive Impacts

First and foremost, ChatGPT offers personalized learning support. In contemporary education, personalized learning stands as a crucial objective. In this regard, ChatGPT plays a pivotal role by providing customized answers and guidance tailored to the unique learning needs and queries of individual graduate students. Through interactions with ChatGPT, graduate students gain targeted academic support, aiding them in comprehending complex ideological and political concepts and thereby fostering an individualized learning experience [7]. Secondly, ChatGPT stimulates innovative thinking. The model's repository encompasses knowledge and perspectives from diverse domains, thereby consistently sparking innovative thinking among graduate students. Through interactions with ChatGPT, students are exposed to viewpoints spanning various disciplines and fields, cultivating interdisciplinary thinking. This holistic learning experience empowers graduate students to think creatively, propose novel solutions, and inject fresh vitality into future academic and professional pathways. Thirdly, ChatGPT enhances self-directed learning abilities. Real-time guidance from ChatGPT contributes to nurturing graduate students' autonomy in learning. Accessible at any time and place, students can pose questions to ChatGPT and receive prompt feedback and suggestions. This immediate learning support fosters their problem-solving capabilities in independent contexts. This learning paradigm cultivates self-directed learning skills, enabling graduate students to adapt effectively to rapidly changing knowledge environments, thus establishing a robust foundation for sustained learning and career development.

3.2 Negative Impacts

Nonetheless, the application of ChatGPT also introduces certain disconcerting negative repercussions that warrant vigilance. Firstly, excessive reliance on ChatGPT may potentially erode graduate students' critical thinking. In today's environment of facile information retrieval, students might gravitate toward seeking instant solutions, which could diminish their capacities for in-depth problem analysis, challenging diverse viewpoints, and questioning assumptions. They could become inclined to be bound by model-generated answers, thereby ceasing active pursuit of profound independent thought. Secondly, the ethical and moral dimensions inherent in ChatGPT-generated content warrant profound concern. Content generation in technology relies on a vast array of network data, harboring a plurality of perspectives and stances, potentially exposing graduate students to information that is inaccurate, incomplete, or even misleading. This is especially

significant in ethical domains, where this influence could result in graduate students experiencing confusion in moral judgments and ethical decisions, or even contravening fundamental ethical principles[8]. Thirdly, excessive reliance on ChatGPT might lead to a reduction in graduate students' social interactions, posing a challenge to the communal nature of graduate ideological and political education work. Interaction with the model is relatively unidirectional, potentially diminishing real-time exchanges with peers and instructors. However, interactions with peers and professional mentors are instrumental in fostering essential qualities such as critical thinking, leadership aptitude, and collaborative skills. Lastly, content generated by ChatGPT might harbor cultural biases, possibly causing graduate students to overlook indigenous traditional cultures. The data sources and algorithms underpinning the technology might exhibit a bias towards Western cultures, thereby neglecting the richness of indigenous cultures. This cultural bias could impinge upon graduate students' cross-cultural cognition and accurate comprehension of local cultures.

4. Countermeasures: Harnessing Positive Impacts, Rectifying Negative Impacts

Faced with the influence of ChatGPT, it is incumbent upon us to maximize its positive impacts while concurrently adopting effective countermeasures to ameliorate its potential negative consequences. The ensuing discussion will delve into these countermeasures, ensuring that ChatGPT plays a more constructive role in graduate ideological and political education work.

1) In order to ensure the positive impact of OpenAI's ChatGPT, OpenAI and relevant teaching parties have developed clear and comprehensive usage guidelines. Firstly, they must clearly define the application scope of ChatGPT, including assisting in classroom discussions and providing information summaries. In addition, educators and students should clearly define the expected purpose of ChatGPT, emphasizing its role as a tool for collecting background information, rather than replacing research and in-depth thinking. In addition, in order to avoid excessive reliance on this tool, it is necessary for users to maintain a cautious balance in terms of usage frequency.

2) Educators and schools should strengthen critical thinking. Educators and schools believe that strengthening critical thinking is the core to mitigating the potential negative impact of ChatGPT. Therefore, education departments and teachers should focus on cultivating the ability of graduate students to analyze and evaluate information. They encourage students to think from multiple perspectives, supported by different perspectives, by introducing real-life case studies. In addition, activities such as debates organized by teachers can stimulate students' critical thinking and help them better identify false information and misleading content.

3) Educational institutions and schools should cultivate moral awareness. In cultivating ethical ethics, educators have a responsibility to guide graduate students in the correct use of ChatGPT based on academic integrity and ethical norms. Teachers can introduce cases involving moral conflicts in the course and encourage students to discuss the moral issues that may arise from using artificial intelligence tools. Through collective discussion, students can better understand the ethical principles guiding the use of ChatGPT and cultivate their ability to make moral judgments.

4) Schools and education departments should promote comprehensive skill development. To address the potential issues of reduced social interaction and neglect of local culture caused by excessive reliance on ChatGPT, educational leaders should emphasize the cultivation of comprehensive skills. Designing interdisciplinary educational activities that encourage graduate students to participate in team projects and community services can cultivate communication, leadership, and problem-solving skills. These practices also promote communication and understanding between different cultures.

5) Schools, academic institutions, and education departments must establish cooperation and supervision mechanisms. To ensure the effective implementation of countermeasures, both graduate students and educators must participate in the development process to ensure their participation and consensus. Through professional training, educators can better understand how to effectively integrate ChatGPT into teaching and monitor its use. In addition, each institution should establish a

monitoring mechanism to regularly evaluate the impact of ChatGPT on education, as well as the effectiveness of positive impacts and countermeasures, in order to make timely adjustments and improvements. This cooperation will ensure that ChatGPT continues to have a positive impact on graduate ideological and political education, providing strong support for future academic and career development.

In summary, these measures will help cultivate graduate students with critical thinking, moral judgment, and cross-cultural communication skills, enabling them to better respond to the challenges and opportunities brought about by artificial intelligence. At the same time, in order to achieve this goal, it requires the joint efforts of educators, institutions, and students to create a positive education ecosystem and maximize the value of ChatGPT in education.

5. Conclusions

Envisioning the trajectory of future artificial intelligence technology, the university talent cultivation model must pivot towards fostering independent thinking, self-directed learning, and discernment abilities in response to the evolving challenges of artificial intelligence. The imperative lies in nurturing students' capacity to analyze data, make autonomous judgments, apply information effectively, and sift through information, all under the guidance of sound values. It entails constructing a human-machine collaborative learning model characterized by respect, mutual assistance, and communication, thereby forging a talent cultivation paradigm aligned with the new era of artificial intelligence.

In light of this, the present study delved into the influence and countermeasures concerning ChatGPT on graduate ideological and political education. In summation, in regard to the impact of ChatGPT on graduate ideological and political education, our approach necessitates the amplification of its constructive effects while simultaneously implementing robust measures to mitigate its prospective negative repercussions. Through the formulation of educational usage guidelines, the fortification of critical thinking acumen, the cultivation of ethics and morals, and the nurturing of comprehensive competencies, we can adeptly steer graduate students towards harnessing the advantages of ChatGPT while deftly curbing any potential adverse effects.

By virtue of concerted efforts from educators and stakeholders, ChatGPT can transcend its role as a mere tool, assuming its position as an enabler in advancing the realm of graduate ideological and political education. As the landscape of education and technology continues to evolve, the synergy between human intelligence and artificial intelligence, fostered by conscious guidance, holds the promise of ushering in a new era of enlightened learning and profound socio-political understanding. In this synthesis, ChatGPT can emerge as a catalyst in shaping the intellect and conscience of future leaders, ensuring their preparedness for a world dynamically influenced by the inexorable march of artificial intelligence.

References

[1] Hongjun G E, Wei L, Department P. The Change, Challenge and Countermeasure of College Students' Ideological and Political Work Choice under the Background of Mobile Internet [J]. Journal of Ningbo Institute of Education, 2019, 5(2):5-9.
[2] Ning C, Zhan M, Hui B, et al. Research on the Path and Countermeasure of Integrating Ideological and Political Education into Medical Professional Courses[J]. Guangdong Chemical Industry, 2019, 30(4):11-22.
[3] Qin K. Countermeasure Research on Educators' Response to the Rebellious Psychology in College Students' Ideological and Political Education[J]. Journal of Hubei Open Vocational College, 2019, 12(4):19-24.
[4] Jingyi B. Study on the Risk of Campus Loan and the Countermeasure of Ideological and Political Education[J]. Journal of Educational Institute of Jilin Province, 2021, 18(4):30-34.
[5] Yuqiao C. Research on the Development Situation and Countermeasure of "MOOC" of College Ideological and Political Education[J]. The Guide of Science & Education, 2022, 25(14):25-30.
[6] Jie H. Analysis and Countermeasures of the Current Situation of Ideological and Political Education for College Students in Science and Engineering Universities[J]. Journal of Hubei Correspondence University, 2021, 23(18):31-35.

[7] Zhong Binglin, Shang Junjie, Wang Jianhua, Han Yunbo, Liu Jin, Zou Hongjun, Wang Zhenglu. Challenges of Chat GPT in Education (A Discussion) [J]. Chongqing Higher Education Research, 2023, 11(03): 3-25.
[8] Wang Shao. Technical Approach, Security Risks, and Prevention of ChatGPT's Involvement in Ideological and Political Education [J]. Journal of Shenzhen University (Humanities & Social Sciences), 2023, 40(02): 153-160.