**Studying with Emerging Technology: Higher Education Student**

**Introduction**

Today, students at higher education institutes use not only pen and paper but also rely on a variety of emerging software and hardware technologies in their daily study lives. Emergent technologies, including artificial intelligence (AI) systems and robotic assistants, have significantly contributed to improving the work of both students and teachers on campus, particularly in terms of enhancing study performance and teaching efficiency (Leoste et al., 2021). One of the most popular AI tools, ChatGPT, can immediately and precisely identify errors in programming code when users copy and paste their code into the chat column. However, while it provides convenient study assistance, it has also raised some privacy concerns on campuses. Two recent studies (Kuleto et al., 2021; McGrath et al., 2023) have highlighted that new technology introduces privacy issues that require attention and improvement, as it often carries a high potential security risk through widespread data sharing on the internet. This article first discusses the benefits of enhanced student learning performance and teaching efficiency for educators. Subsequently, it delves into the impressive positive aspects and potential challenges related to these emerging technologies.

**Improvement in Student Learning Performance**

Students can improve their learning performance in higher education tasks through the assistance of emerging technology. Various useful applications have come to our sight, such as ChatGPT, Grammarly, and Google Drive. First of all, according to McGrath et al. (2023), the approaching trend of intelligent learning tools is spreading in the academic environment. It means that people can obtain impressive solutions to complex problems through casual chats almost instantly (Chaudhry et al., 2023). At the meantime, a large number of universities believe that AI technology has the potential to enhance students' learning achievements (Kuleto et al., 2021) by helping students create a personalized and suitable study environment (Leoste et al., 2021). Due to the diverse disruptions in people's daily lives, maintaining concentration can be a challenge, especially when students need it for working on projects or preparing for exams. Thus, thanks to AI technology, which is now applied in many applications, software can automatically customize its interface to suit users' habits. This helps reduce the giving of irrelevant information to users and helping students avoid getting distracted during their time of concentration. Additionally, though data sharing on the internet and the system, AI can also customize the study plan for every user (Chen et al., 2021). In the past, the Chinese education system required everyone to achieve the same goal through a uniform educational process and resources. However, this approach often led to student pain and inefficiency. Applied AI in students' daily study tools, which doesn't require users to familiarize themselves with anything new, can firstly identify the study styles and preferences of each user; and secondly, it can give feedback which is easy to practical and achievable. Finally, student see the positive result, being confident in study. To sum up, AI technology now playing an important role in student’s study performance in higher education, as it can be applied in various situations.

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**Subheading2:** Update theteaching style/ tool

**Subheading3:** Facing challenges inprivacy issue

**Reference**

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**Summary Matrix**

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| **Author** | **Date** | **Notes** |
| Chaudhry et al. | 31 December  2023 | * (Emerging tech. Soft skills )      * learning performance * AI ChatGPT study efficiency |
| Chen et al. | April 17, 2020 | * AI studying performance :   Data shariing  customize study plan  score up & enjoy studying |
| Kuleto et al. | 18 September 2021 | * Teacher: Efficiency teaching tool * Privacy issues |
| Leoste et al. | 8 September  2021 | * Student: learning performance * Teacher: teaching efficiency |
| McGrath et al. | 2023 | * Privacy issues * Fairness |

Table

Screenshot

