RISE

Catalysing Global Research Excellence

ARTIFICIAL INTELLIGENCE (AI):
Embracing the Future

RISE

ADMINISTRATION

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ABOUT THE MAGAZINE

RISE Magazine is published by Office of the Deputy Vice-Chancellor (Research and Innovation) with aims to highlight a research and innovation on multidisciplinary expert of fields in UiTM. It serves as a platform for researcher to showcase their high quality and impactful findings, activities and innovative solution through publication. Contribution of these ideas come from academicians, researchers, graduates and universities professionals who will enhance the visibility of research and stride to elevate Universiti Teknologi MARA to global standards. This is an effort to promote research as a culture that is accepted by all expertise.

ABOUT UiTM

Universiti Teknologi MARA (UiTM) is a public university based primarily in Shah Alam, Malaysia. It has grown into the largest institution of higher education in Malaysia as measured by physical infrastructure, faculty and staff, and student enrollment. UiTM is the largest public university in Malaysia with numerous campuses throughout all 13 states in Malaysia. There is a mixture of research, coursework and programmes offered to the students. The Office of the Deputy Vice-Chancellor (Research and Innovation) also known as PTNCPI *(Pejabat Timbalan Naib Canselor (Penyelidikan dan Inovasi))* serves as a *Pusat Tanggungjawab* (PTJ) for navigating the research and innovation agenda of the university to achieve UiTM's goals.The PTNCPI office strives to mobilize faculty and campuses, fostering collaboration among researchers, with the aim of transforming the University into a Globally Renowned University by 2025
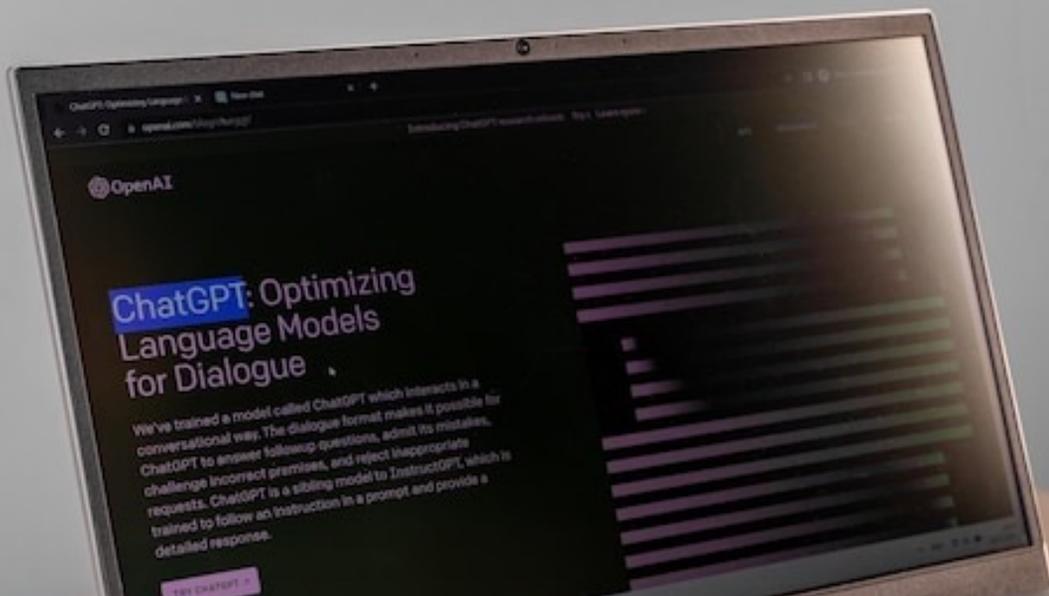
ChatGPT: *A Catalyst for Evolutionary Change in Language Learning Experience*

The use of AI in education has recently taken precedence with the recent emergence of ChatGPT, a language generative model where data is trained to adhere to human instructions. ChatGPT marks the beginning of continuous evolution in language learning in the 21st century. What makes ChatGPT compelling is its ability to provide written responses close to human cognitive responses. It can generate logical and complex human-like responses of various genres; from a simple response such as English essays and summaries, to more complex response such as analyses. Dahmen et al. (2023) defined ChatGPT as a language generation model developed by Open AI that can generate text based on the input it receives. Baidoo-Anu and Ansah (2023) concluded that what ChatGPT generates indicates how interactional and able ChatGPT is in carrying human-like conversation on various topics, as well as in generating content that is creative. Risang Baskara and Mukarto (2023) described ChatGPT's abilities as producing responses that are coherent and contextually suitable based on various stimulus, comprehending natural language prompts, and supplying answers and summaries, especially in higher education, by offering significant potentials in language learning and instruction. Nevertheless, it is also fair to say that it raises concerns among language educators over its human-like written responses, reflecting its ability to "think" and take away learners' language productive and receptive skills. Although the ability of an AI to churn human-like responses warrants concern and caution, it needs to be welcomed with an open mind.

ChatGPT is a catalyst for change in the realm of language learning, which has the potential to tap into learners' curiosity, intelligence and interest to learn. Many of us are intrigued by ChatGPT's logical, sensible, and complex human-like answers. The existence of ChatGPT serves as an impetus for challenging human intelligence. It calls for human intelligence to utilize AI. Although ChatGPT seems to be able to produce human-like responses, it still calls for learners to think by challenging what it can do and analyze how humans would respond to the same stimuli. Chamorro-Premuzic (2023) viewed how human expertise could develop in the world of AI by knowing what questions to ask, having more knowledge than ChatGPT, and knowing how to transform judgement into reality. ChatGPT also drives human intelligence by tapping into human curiosity in observing how far the bot can "think". There are many writings on ChatGPT that have recognized similar benefits of this language generative model for learning. Many found that it creates personalized learning through feedback, translates reading materials, creates a conversational mode of learning, generates various authentic responses, and analyzes errors, among others.

The language model allows school and varsity students to learn language skills through ChatGPT's "assistant" feature. This could motivate learners as the language model acts as a learning partner. Kasneci et al. (2023) listed the potentials of the language model in helping reading and writing skill development by recommending corrections in the aspects of grammar and syntax, assisting language learning and writing styes for numerous subjects,

translate and analyze the original answer, and give encouraging remarks to users. Furthermore, it can alter text materials' difficulty level for better comprehension.

ChatGPT serves as a "personal assistant" that can aid instructors in managing their teaching. It aids language learners through its ability to offer quick and personalized help in assessing and giving feedback, thus alleviating instructors' tight schedule in guiding students of different abilities. Wei (2023) listed improving personalized learning as one of the benefits of ChatGPT for language learners, as it helps instructors create materials and activities that suit individual learners' proficiency level, needs, speed, and interests.

In short, the above benefits could encourage learners to be more active and independent in managing their own learning. This is in line with the vision of creating graduates who are able and capable of managing their own learning using technology to prepare themselves for a highly technologically driven and competitive world. ChatGPT creates learners who are autonomous and self-directed by seeking assistance with their exercises, projects, homework, and assignments from the language model (Sok & Heng, 2023). Nevertheless, while ChatGPT works wonders, it also comes with caution due to its weaknesses and shortcomings. Thus, the bot needs to be utilized wisely and responsibly so as not to compromise human lives and ethics. It needs to exist not to undermine and replace human natural abilities, but to further enrich the uniqueness of human intelligence.

assisting research and writing, as well as honing critical thinking and problem solving skills. At the varsity level, Sok and Heng (2023) highlighted ChatGPT's usefulness in assisting learners to create outlines for articles and help brainstorm ideas for research writing.

ChatGPT also enables a potentially effective way of learning languages by supplying direct learning sources or materials through ChatGPT's authentic language use. ChatGPT brings sources close to learners when they research for materials compared with a list of sources supplied by search engines. ChatGPT responds in a conversational manner, like a human, making the language learning experience more real for the learners. It also portrays a two-way communication between AI and human intelligence, making learning more intellectually stimulating for the learners especially when learning on their own. Wei (2023) described ChatGPT as interacting in a conversational style, which allows learners to negotiate meaning. According to Hong (2023), this AI model mimics human communication that makes it easy for learners to start real conversations. He further added that the benefits relate to learners' questioning mind that calls for conversational elements of summarizing, thinking, asking follow-up questions, seeking clarifications, and giving information.

Furthermore, ChatGPT paves an innovative way of learning through errors by providing human-like feedback. Language learners are able to experience a more interactive and independent way of learning from errors in their language use. Responses from ChatGPT enable language learners to learn from their errors from its ability to provide "corrective feedback" (Wei, 2023). According to Wei (2023), ChatGPT can provide grammatically correct versions of the wrong answer,
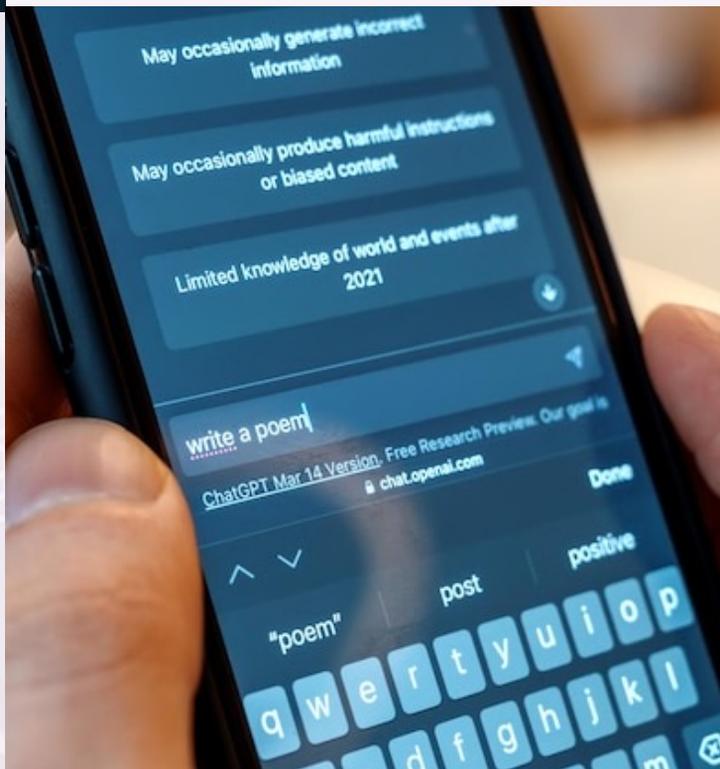
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