



AI and Academic Integrity

Steadying the ship in uncertain waters

Geraldine McDermott

Technological University of the Shannon (TUS)

AI Generated Image (DALL-E): "a ship in stormy seas"

Artificial Intelligence in the news

Chat GPT AI banned in Italy over privacy concerns

The Italian data protection authority is now investigating whether ChatGPT has complied with European GDPR rules



Millions have used ChatGPT, which was created by US startup OpenAI and is backed by Microsoft. It was officially launched last November. Picture: AP Photo/Michael Dwyer, File

FRI, 31 MAR, 2023 - 17:30
STEVEN HEANEY AND REUTERS

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The technology behind ChatGPT is about to get even more powerful

By Samantha Murphy Kelly, CNN Business
Updated 4:42 AM EDT, Wed March 15, 2023



ChatGPT will make marking coursework 'virtually impossible' and shows exams 'more important than ever'

ChatGPT is posing entirely new plagiarism challenges for teachers, and some schools and universities in other countries have already banned it. In the UK, the growing accessibility of advanced AI has reopened the debate over the role of exams.

By Tom Acres, technology reporter

UCC staff told it would be almost impossible to detect students cheating with ChatGPT

They were also told that relying on existing tools for detecting plagiarism would not work as such tools are not "keeping pace with ChatGPT's ability to evade detection"

May 8, 2023

THE LEADER'S DILEMMA

Bringing A.I. Tools to the Workplace Requires a Delicate Balance

Move too slowly, and risk getting left behind. Move too quickly, and neither the staff nor the technology may be ready.

By KEVIN J. DELANEY



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Tech

AI could replace equivalent of 300 million jobs - report

28 March



Home > World News > Elon Musk, Experts Call For Safety Protocols Before Further AI Innovation

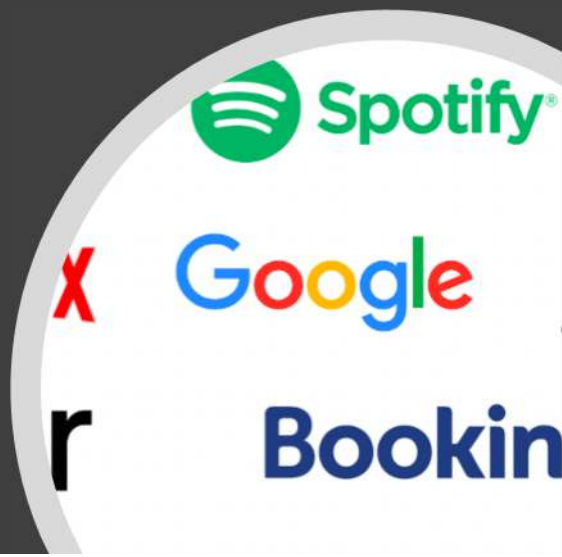
Elon Musk, Experts Call For Safety Protocols Before Further AI Innovation

Elon Musk and a group of artificial intelligence experts and industry executives are calling for a six-month pause in training of systems more powerful than GPT4, they said in an open

World News | Reuters | Updated: March 29, 2023 2:42 pm IST



But... it's (already) part of our everyday lives



Generative AI models

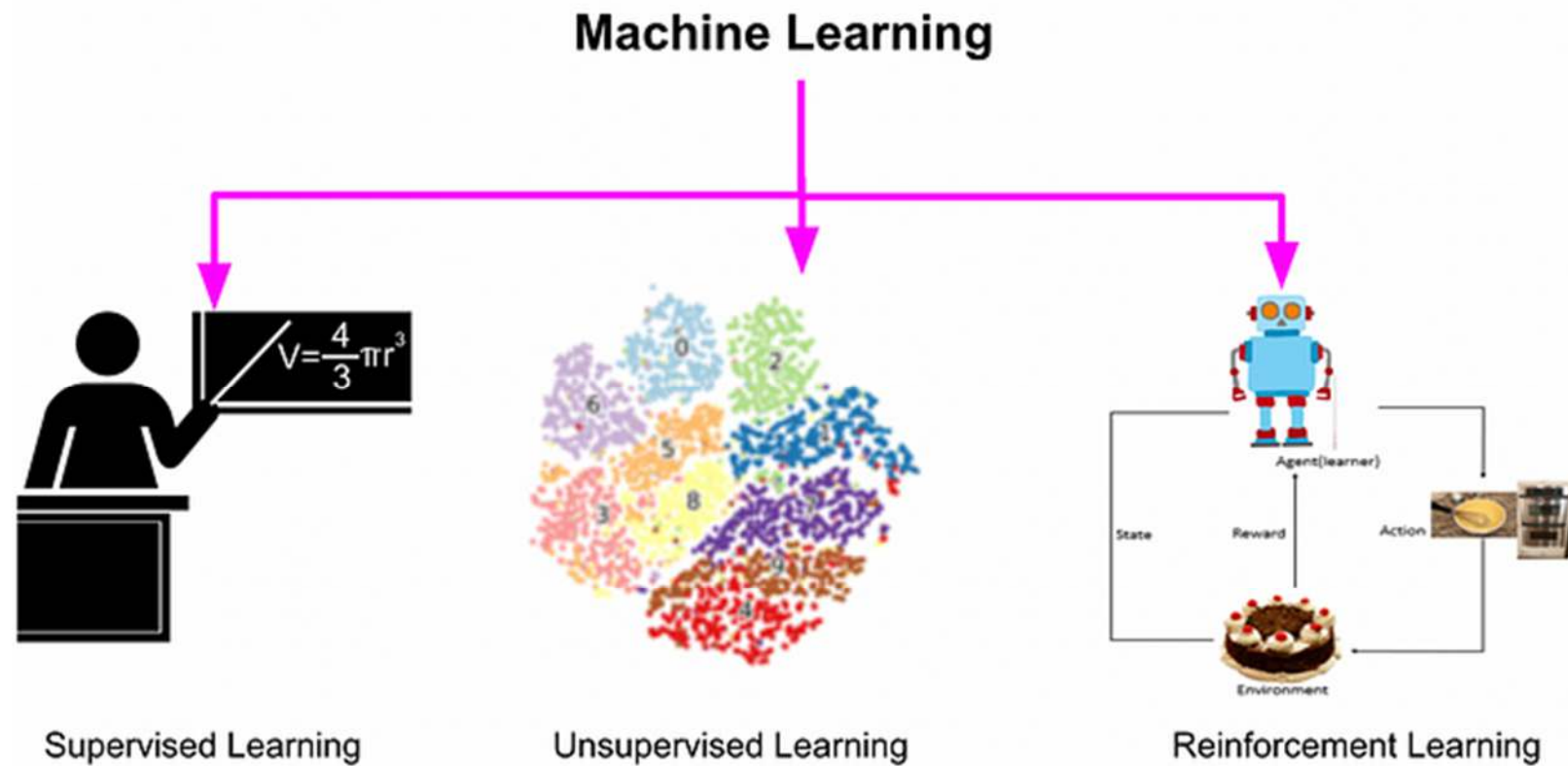


Image Source: [Renu Khandelwal](#), 2022

ChatGPT



What is chatGPT?



I am ChatGPT, a virtual assistant powered by OpenAI's natural language processing technology. I am designed to help answer questions, provide information, and assist with various tasks. As an AI language model, I am capable of understanding and processing natural language input from users and generating responses that are relevant and helpful. I can answer a wide range of questions on various topics, such as science, history, technology, and more.





Image Source: [Rick McKee](#)

Academic Integrity & AI



What are your thoughts on academic integrity?



As an artificial intelligence language model, I don't have personal beliefs or thoughts. However, I can provide information and insights about academic integrity.

Academic integrity is a fundamental value in education that encompasses **honesty, trust,** and **responsibility** in academic activities. It involves a commitment to the principles of honesty, fairness, and ethical behavior in all aspects of academic work, such as research, writing, and assessments. Academic integrity includes avoiding plagiarism, citing sources accurately, and following ethical guidelines in research and experimentation.

Academic Integrity

Is:

- “the commitment to, and demonstration of, **honest and moral behaviour** in an academic setting” (QQI, 2021, p.3)

Involves:

- “Compliance with ethical and professional principles, standards and practices and a consistent system of values, that serves as guidance for making decisions and taking actions in education, research and scholarship” (ibid)



Yet...

FORBES > LEADERSHIP > EDUCATION

More Than Half Of College Students Believe Using ChatGPT To Complete Assignments Is Cheating (1000 students)

Michael T. Nietzel Senior Contributor

I am a former university president who writes about higher education.

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Exclusive: Almost half of Cambridge students have used ChatGPT to complete university work (400 students)

Varsity's exclusive self-selecting online survey has revealed that 47.3% of students have used AI chatbots to complete work for their degree

Mar 20, 2023, 11:02am EDT

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Students are positive on ChatGPT, but uncertain on cheating

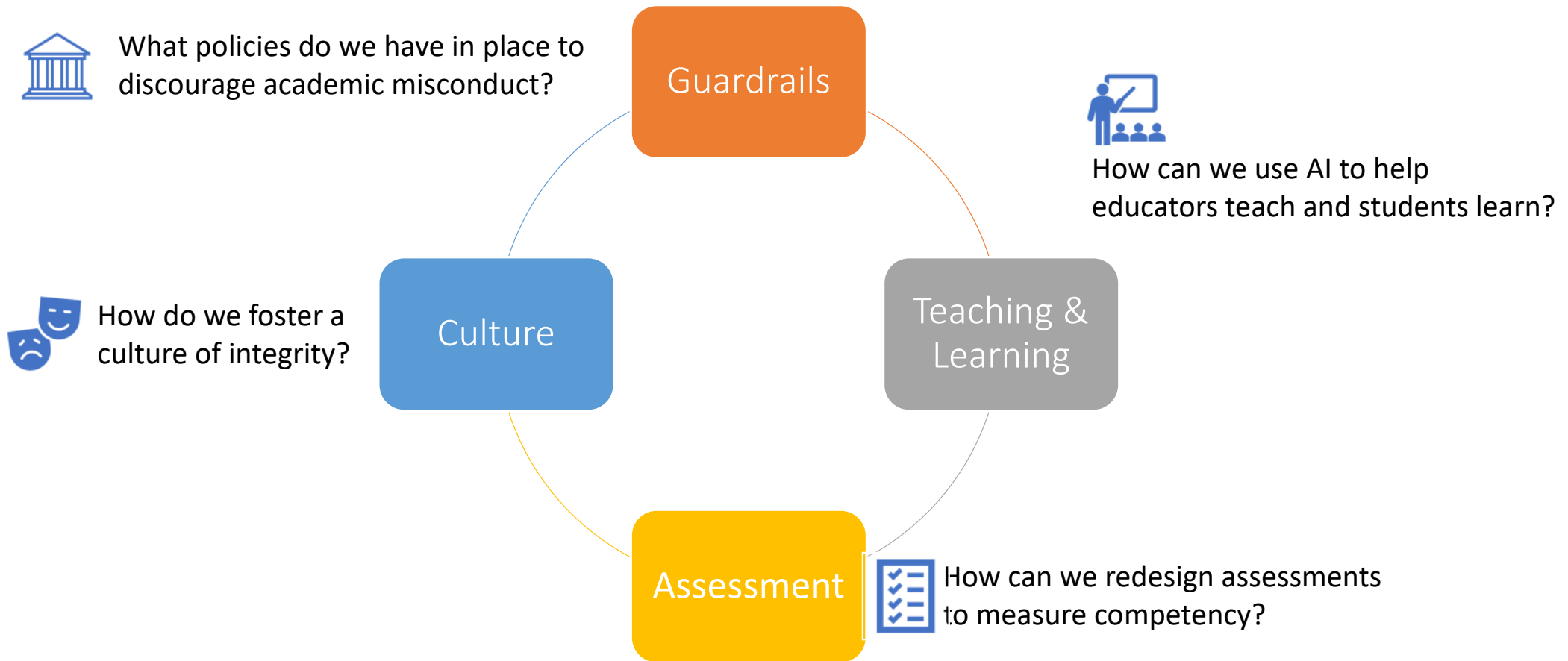
May 15, 2023, 14:05 IST



“Virtually all the responding students (95 per cent) are familiar with ChatGPT, the majority use the tool, and 35 per cent use the chatbot regularly” (6000 students).

“It’s only a threat if we don’t adapt” (Billy Kelly, [Chair NAIN](#), Jan 23)

A multifaceted approach to AI



Policies, Procedures & Regulations

- Does your policy need to be updated?
- Is it sustainable?
- Is it visible?
- Are students familiar with the regulations? Are they discussed regularly with students?

"Most students have no idea whether their educational institution has any rules or guidelines for using AI responsibly, and that is of course worrying. At the same time, an overwhelming majority is against a ban on AI in educational contexts," said Hans Malmstrom, Professor at the Department of Communication and Learning in Science at Chalmers.

<https://www.sakshipost.com/news/students-are-positive-chatgpt-uncertain-cheating-189536#>

They don't feel like they're cheating, because the student guidelines at their university state only that you're not allowed to get somebody else to do your work for you. GPT-3 isn't "somebody else"—it's a program.






The College Essay Is Dead

<https://www.theatlantic.com/technology/archive/2022/12/chatgpt-ai-writing-college-student-essays/672371/>

OECD AI Principles overview

The OECD AI Principles promote use of AI that is innovative and trustworthy and that respects human rights and democratic values. Adopted in May 2019, they set standards for AI that are practical and flexible enough to stand the test of time.

Values-based principles

-  Inclusive growth, sustainable development and well-being >
-  Human-centred values and fairness >
-  Transparency and explainability >
-  Robustness, security and safety >
-  Accountability >

Recommendations for policy makers

-  Investing in AI R&D >
-  Fostering a digital ecosystem for AI >
-  Providing an enabling policy environment for AI >
-  Building human capacity and preparing for labour market transition >
-  International co-operation for trustworthy AI >

The OECD AI Principles focus on how governments and other actors can shape a human-centric approach to trustworthy AI. As an OECD legal instrument, the principles represent a common aspiration for its adhering countries.



>> Official text

Governments that have committed to the AI Principles



Image Source: <https://oecd.ai/en/ai-principles>

Teaching & Learning

- AI Literacy
- AI generated material as a basis for discussion about critical analysis, ethics, what it means to be human, etc.
- Generate quiz questions about a topic
- Design a draft marking rubric.
- Write a lesson outline.
- Compose an exemplar question- and go through it with students to identify the weaknesses.
- Create a scenario and ask students to respond. Compare with ChatGPT results.
- Ask students to generate a variety of prompts for a specific topic. Which of the responses gives the best answer and why?

Adapted from [How AI can be used meaningfully by teachers and students in 2023](#) (Liu, Ho, Weeks and Bridgeman)



"It's like **being colour blind and suddenly being able to see all the beautiful colours**".
(Student with Dyslexia and ADD, Image created with DALL-E using text in bold)

A renewed focus on Assessment Design

The College Essay Is Dead

Nobody is prepared for how AI will transform academia.

By Stephen Marche



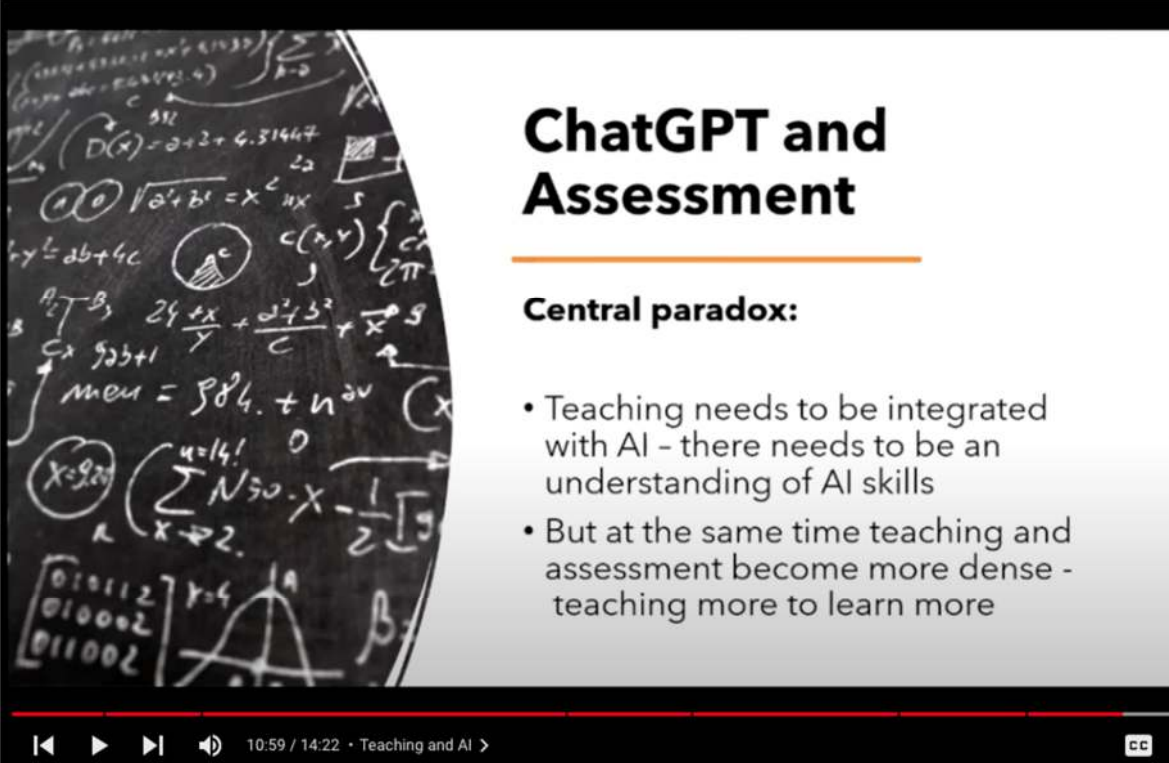
Paul Spella / The Atlantic; Getty

DECEMBER 6, 2022

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Assessment Design Ideas

- Make assessment a demonstration of competence, get students to show you how they complete a task (OSCEs).
- Require personal reflection and insights based on student experience (Applied / Authentic Learning).
- Require notes and drafts are submitted with final work.
- Use portfolios or projects (longer-term commitment)
- Use video / oral assessments
- Design In-class assessments
- Set tasks that require analysis
- Use AI and critical commentary
- **Most importantly, don't be tempted to revert to the written exam!**



ChatGPT and Assessment

Central paradox:

- Teaching needs to be integrated with AI - there needs to be an understanding of AI skills
- But at the same time teaching and assessment become more dense - teaching more to learn more

10:59 / 14:22 • Teaching and AI

The Impact of AI on Higher Education Students: Bernice Yeo, Jennifer Seon & Sopia Zhgenti



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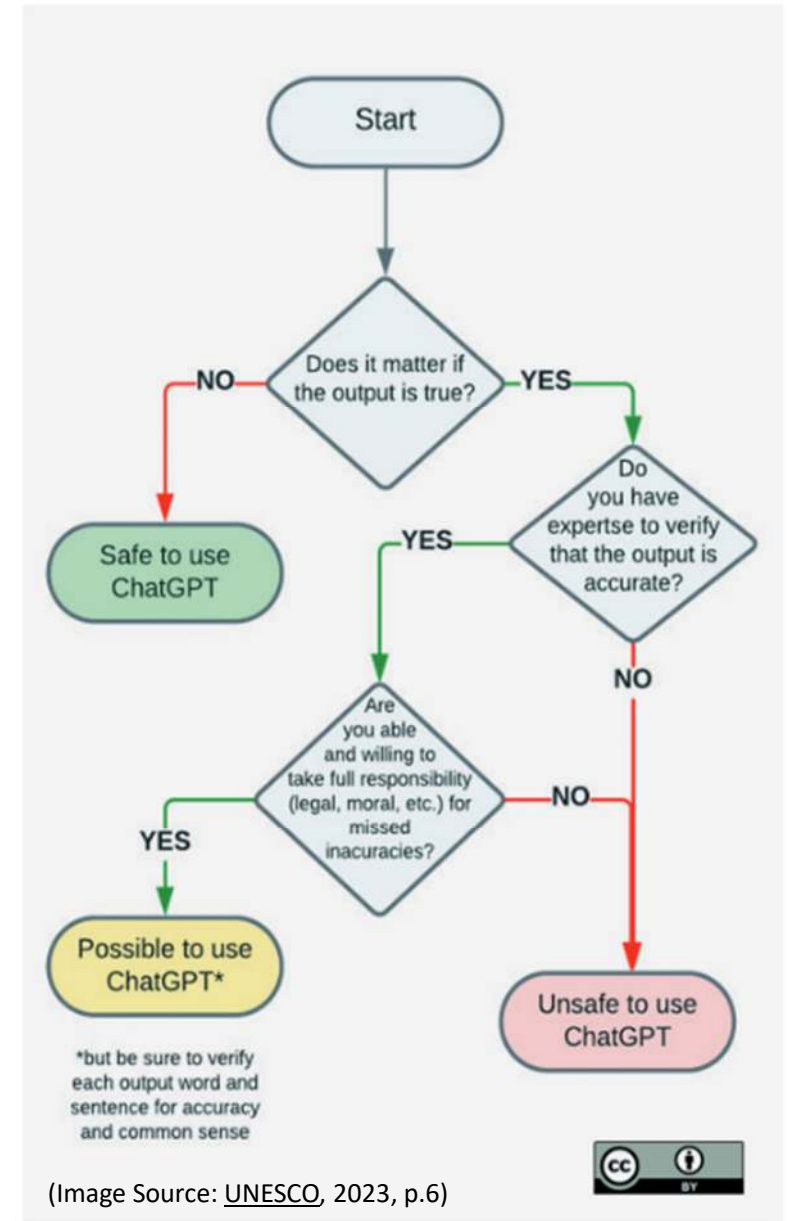
The right balance

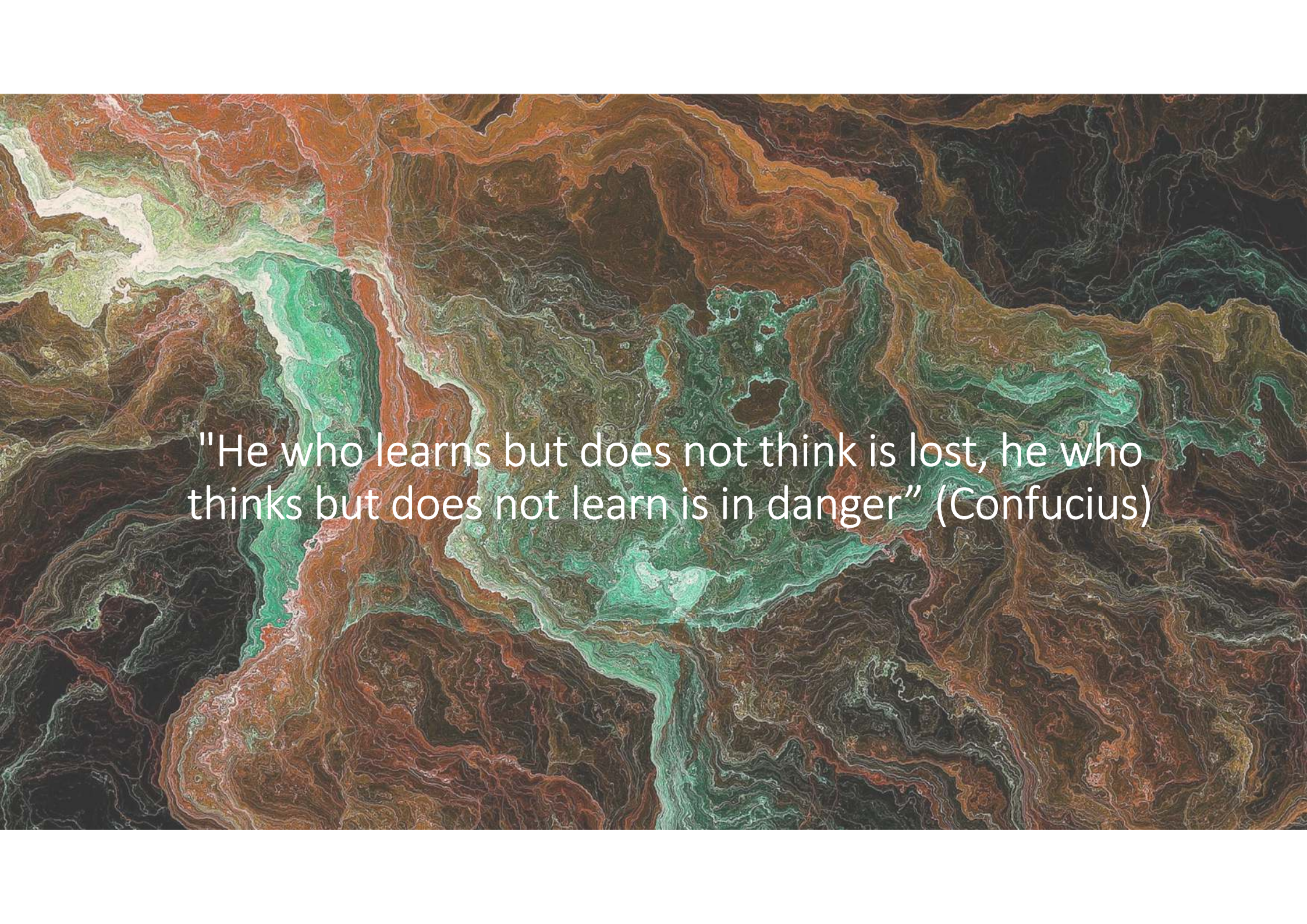
ACKNOWLEDGEMENT

The author generated this text in part with GPT-3, OpenAI's large-scale language-generation model. Upon generating draft language, the author reviewed, edited, and revised the language to their own liking and takes ultimate responsibility for the content of this publication.

Atlas, Stephen. "ChatGPT for Higher Education and Professional Development: A Guide to Conversational AI." (2023). https://digitalcommons.uri.edu/cba_facpubs/548

"Even though people can relinquish full or partial control to artificial intelligence apps, allowing the technology either to write *for* them or to write *with* them, humans remain responsible for the result". (Sarah Elaine Eaton, 2023, University World News)



The background of the image is a complex, organic pattern of marbled paper. The colors are primarily dark browns, blacks, and greys, with vibrant streaks and swirls of emerald green and ochre yellow. The pattern resembles natural stone or biological tissue, with intricate, swirling lines and veins. The text is centered in the middle of the image, overlaid on the marbled background.

"He who learns but does not think is lost, he who thinks but does not learn is in danger" (Confucius)

Useful Resources

- Cotton, D. R. E., Cotton, P. A., & Shipway, J. R. (2023). Chatting and cheating: Ensuring academic integrity in the era of ChatGPT. *Innovations in Education and Teaching International*, 1–12. <https://doi.org/10.1080/14703297.2023.2190148>
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