



Being Future Ready: A Deep Dive into Al Literacy and Policy in Education

Prof. Cecilia K Y Chan The University of Hong Kong 20 September 2023





教與學優化中心

Centro para a Melhoria do Ensino e da Aprendizagem Centre for Teaching and Learning Enhancement



香港大學 THE UNIVERSITY OF HONG KONG





Enhancement	Professional
& Research	Programmes
Data & Analytics	Edtech & Learning Design

Mentimeter QR Code







What are your thoughts on this?



Al is here to stay Is it A Game Changer? Or A Pandora Box?

Well, that kind of depends on our move as human and also our move as educators



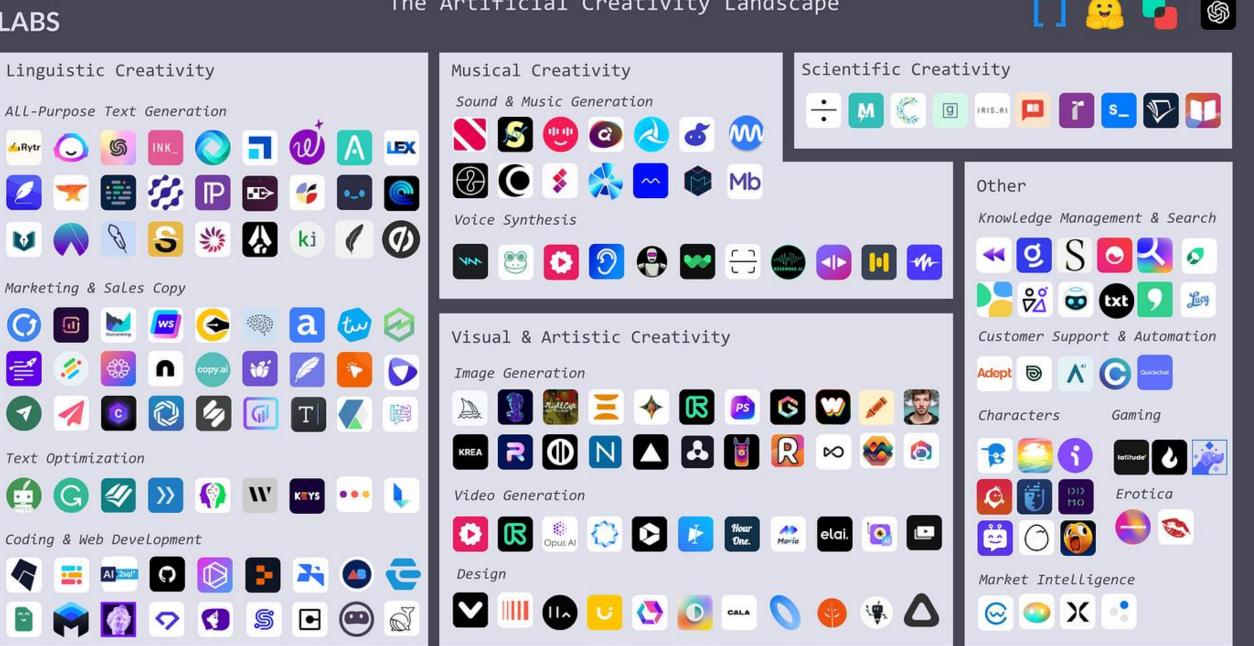
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The Artificial Creativity Landscape

ALL-in-one Tools

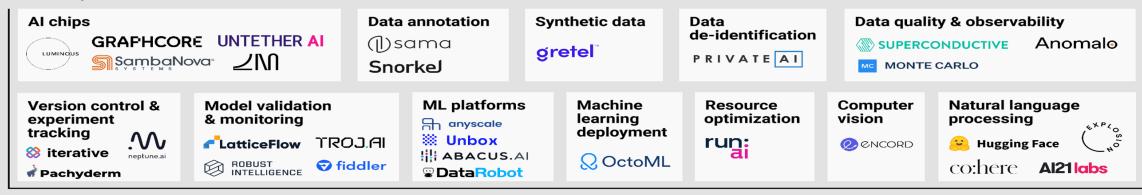




Industry-specific applications

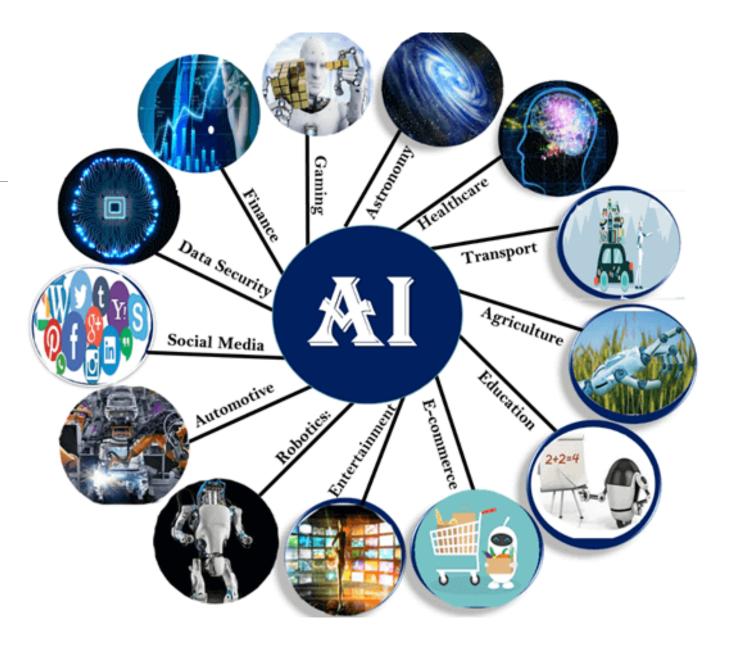


AI development tools





Different Industries



3 Types of Artificial Intelligence

Artificial Narrow Intelligence (ANI)



Stage-1

Machine Learning

 Specialises in one area and solves one problem



Artificial General Intelligence (AGI)



Stage-2

Machine Intelligence

 Refers to a computer that is as smart as a human across the board

Artificial Super Intelligence (ASI)



Stage-3

Machine Consciousness

 An intellect that is much smarter than the best human brains in practically every field

GenAl in Education



Language and Grammar Translator

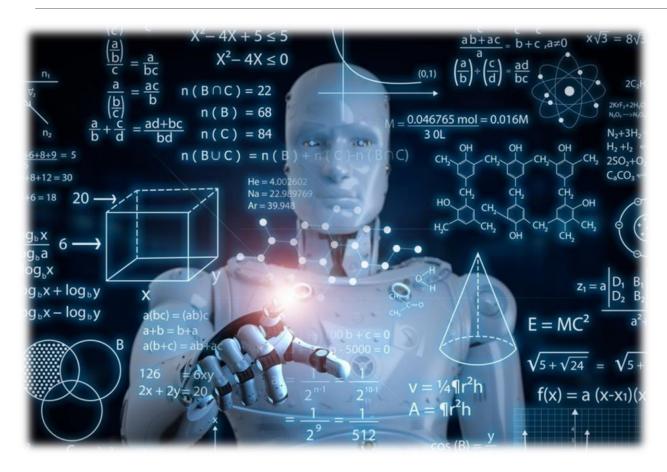
One area where GenAI could be useful is in language learning. The model could be used to help students practice their language skills by providing feedback on their writing, or by engaging in conversation with them in the target language. Additionally, GenAI could be used to generate reading materials and exercises tailored to the student's level and interests.



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Automated Marking and Feedback Assessor

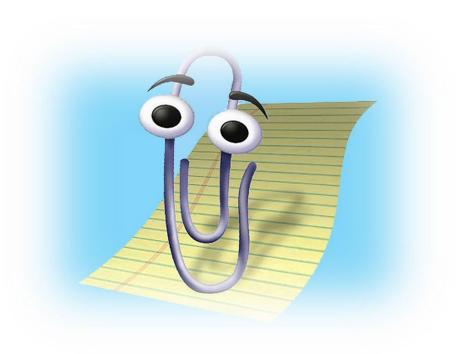


GenAI can be used to grade assignments and tests quickly and accurately, reducing the time required for manual grading and feedback.



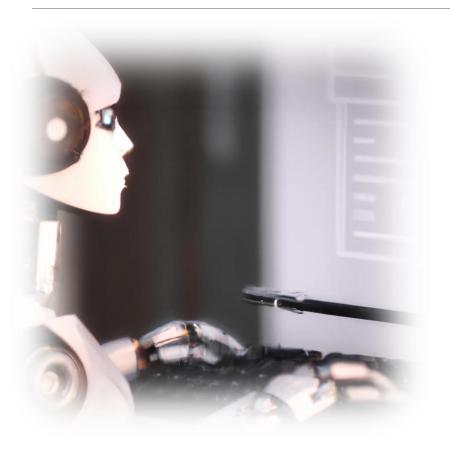
Personal Adaptive Tutors

GenAl can be used to create a personal adaptive tutor and counsellor to help answer questions about their studies, information about their programme, and career, retention and admission advices.





Course, Content and Assessment Designer



GenAI could be used to generate instructional materials, such as handouts, syllabi, and other resources for teachers and students.



Personal Assistant Research Assistant Counsellor/Therapist



Monday, Feb 27th 2023 3AM 6°C 📩 6AM 6°C 📩 5-Day Forecas

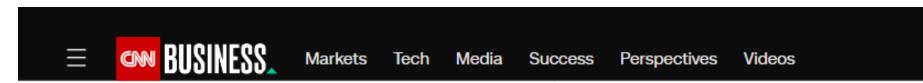
HailOnline



The rise of the machines? ChatGPT CAN pass US Medical Licensing Exam and the Bar, experts warn - after the AI chatbot received B grade on Wharton MBA paper

Bloomberg

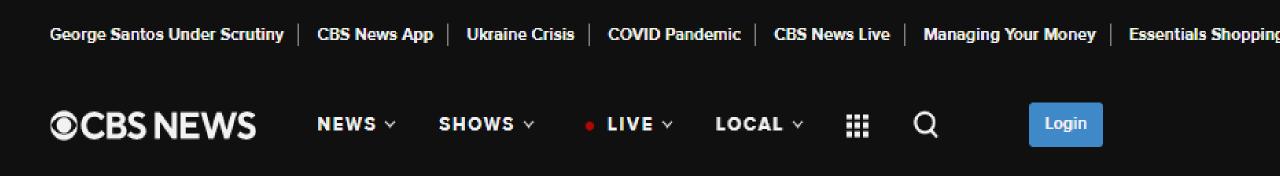
ChatGPT Gets an MBA



ChatGPT passes exams from law and business schools



By Samantha Murphy Kelly, CNN Business Updated 1:35 PM EST, Thu January 26, 2023



MONEYWATCH >

AI ChatGPT is helping CEOs think. Will it also take your job?

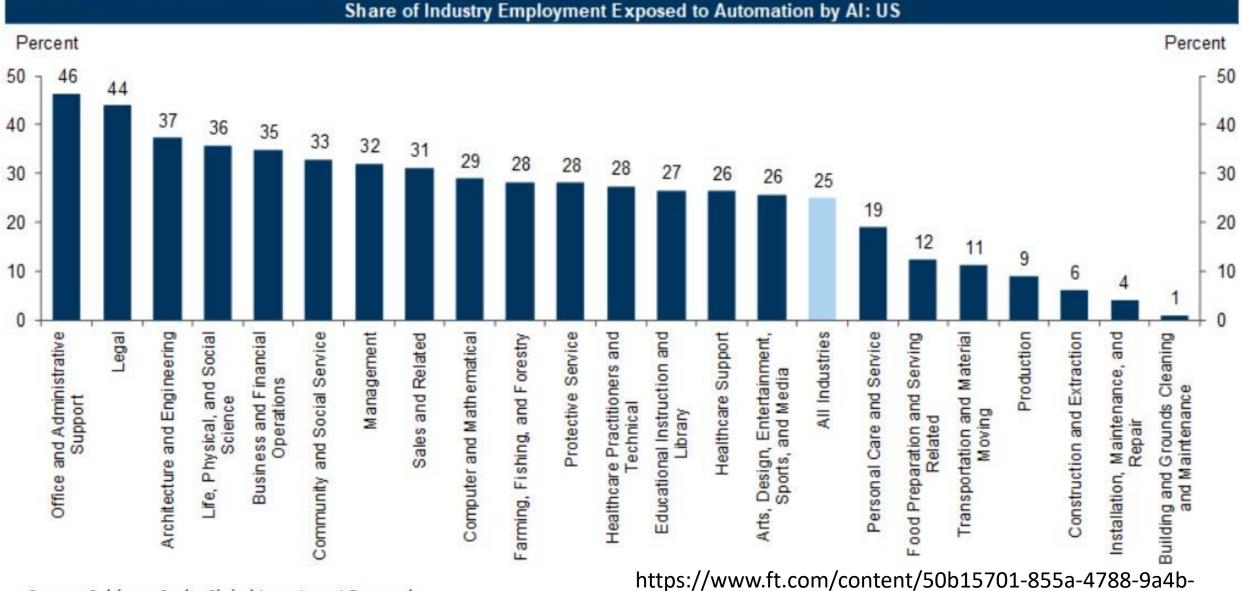


BY MEGAN CERULLO

JANUARY 24, 2023 / 5:00 AM / MONEYWATCH

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Exhibit 5: One-Fourth of Current Work Tasks Could Be Automated by AI in the US and Europe



Source: Goldman Sachs Global Investment Research

March 27, 2023

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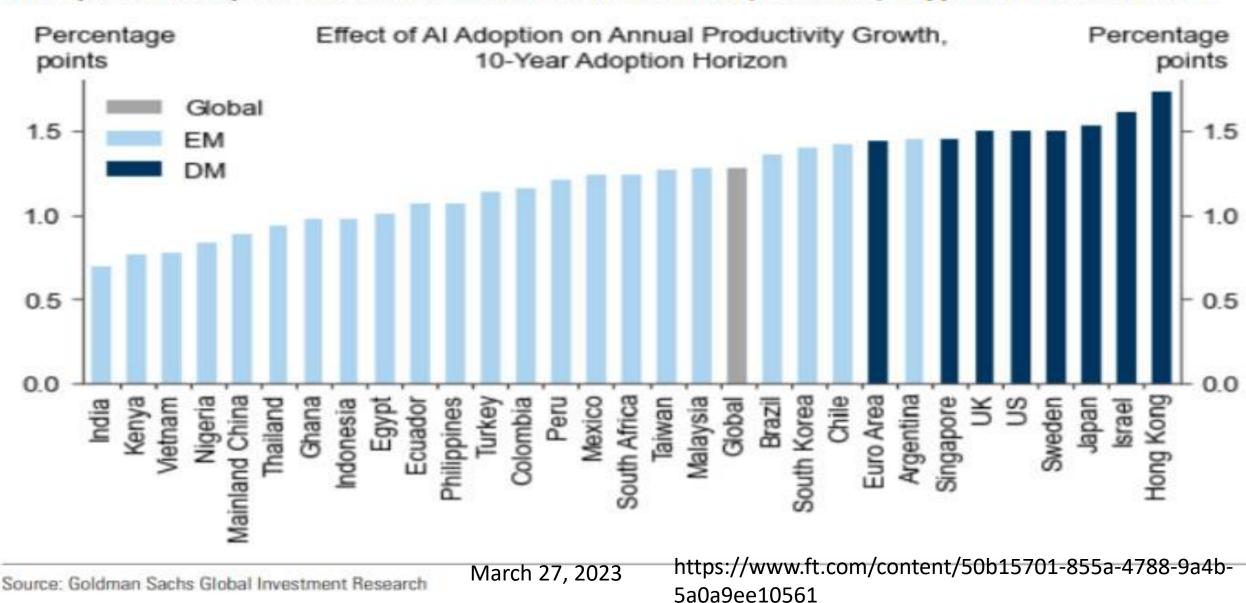


Exhibit 14: Productivity Growth Boosts Could Be Sizable in Other Countries As Well; We Estimate Widespread AI Adoption Could Boost Global Annual Productivity Growth by 1.4pp Over a 10-Year Period



That makes it even more important for students to master AI



Demonstration



Our Questions on GenAl

- 1. Are we using it?
- 2. How should we use it?
- 3. Are we monitoring our usage?
- 4. Do we understand how it actually works?
- 5. Could excessive use lead to reliance on it?
- 6. Might it replace us?
- 7. Could it diminish our opportunities to develop generic skills or even human values?
- 8. Should there be regulation?
- 9. Would there be constant monitoring of such regulation?

Chan, C.K.Y., & Hu, W. (2023). Students' Voices on Generative AI: Perceptions, Benefits, and Challenges in Higher Education. *International Journal of Educational Technology in Higher Education*. [in press]



Governance Dimension

[Senior Management]

Students, Teachers, Staff, Management, External Agents

Pedagogical Dimension [Teachers] Framework

Chan, C.K.Y. (2023). A Comprehensive AI Policy Education Framework for University Teaching and Learning. International Journal of Educational Technology in Higher Education. DOI: 10.1186/s41239-023-00408-3

AI Ecological Education Policy

Operational Dimension

[Teaching and Learning and IT staff]





Governance Dimension

- 1. Understanding, identifying, and preventing academic misconduct and ethical dilemmas
- 2. Addressing governance of AI: data privacy, transparency, accountability, and security
- 3. Attributing AI technologies
- 4. Ensuring equity in access to AI technologies

Senior Management



Operational Dimension

 Monitoring and evaluating AI implementation
Providing training and support for teachers, staff, and students in AI literacy

Teaching and Learning and IT staff



Pedagogical Dimension

- 1. Rethinking assessments and examinations
- 2. Developing student holistic competencies/generic skills
- 3. Preparing students for the Al-driven workplace
- 4. Encouraging a balanced approach to AI adoption

Teachers



Provision

Redesigning Assessment with Generative AI: A Guide for Teachers - Five Steps to AI-integrated Assessment Redesign, Attribution to AI, Scenarios for Assessment Redesign

WhatsApp Hotline - Hotline specifically for GenAI Teaching and Learning.

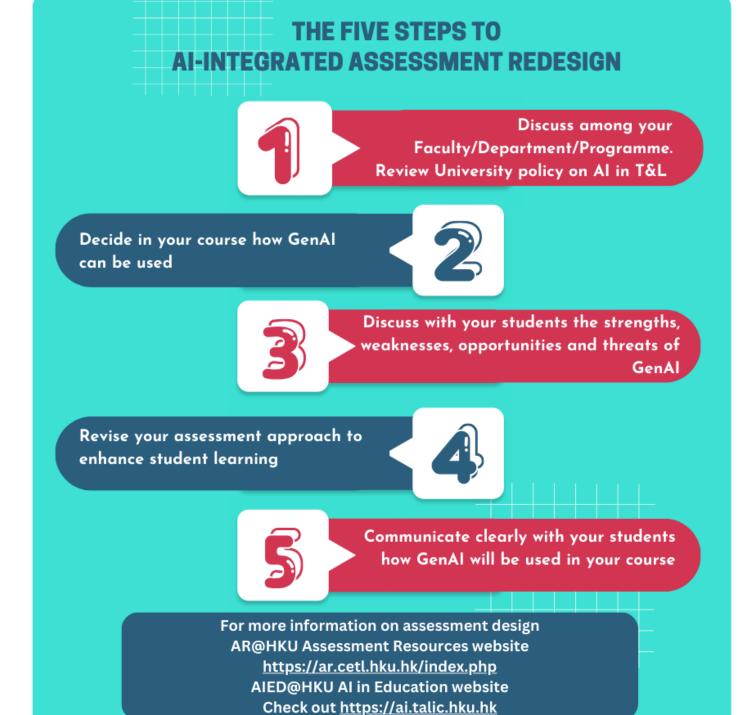


Provision

HKU AI Clinic - The clinic is staffed with colleagues from TALIC and trained students for one-to-one support, including downloading apps or trying out image, text, or video GenAI applications.

AI in Education Website (AIED@HKU) - A dedicated website will be launched around September/October this year to provide additional resources.

AI-Literacy Self-paced Online Course - We have developed an AI literacy course for all HKU students and staff.



Rethinking our pedagogy not just assessment but the learning process





GenAl and Assessment

- How do we know the student assessment is genuinely their work?
- How can we integrate AI into the curriculum and assessment?
- What constitutes academic misconduct when using GenAl?
- What do we mean by "Al-giarism"?



GenAl Detection Software

It is currently not advisable to rely on AI detection tools for ensuring the prevention of cheating or academic misconduct



Attribution to Al

"The author acknowledges the use of [AI tool's name, version, and developer] in the process of [research, writing, data analysis, etc.] for this work. The AI tool served as an aid to [enhance readability, perform complex calculations, analyse extensive data, etc.]. It's important to note that the AI-generated content was not used verbatim. Instead, it was thoroughly reviewed, edited, and curated by the author to ensure the accuracy, authenticity, and integrity of the information. The human oversight and judgment were paramount in interpreting and validating the AI's contribution. Therefore, the final product is the result of a human-AI collaboration."





AR@HKU website



香港大學 THE UNIVERSITY OF HONG KONG

Redesigning Assessment with Generative AI: A Guide for Teachers

Prof. Cecilia Ka Yuk Chan 30 June 2023 (Ver. 1.1)

· @HKU



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What do you need to do in this Al era?

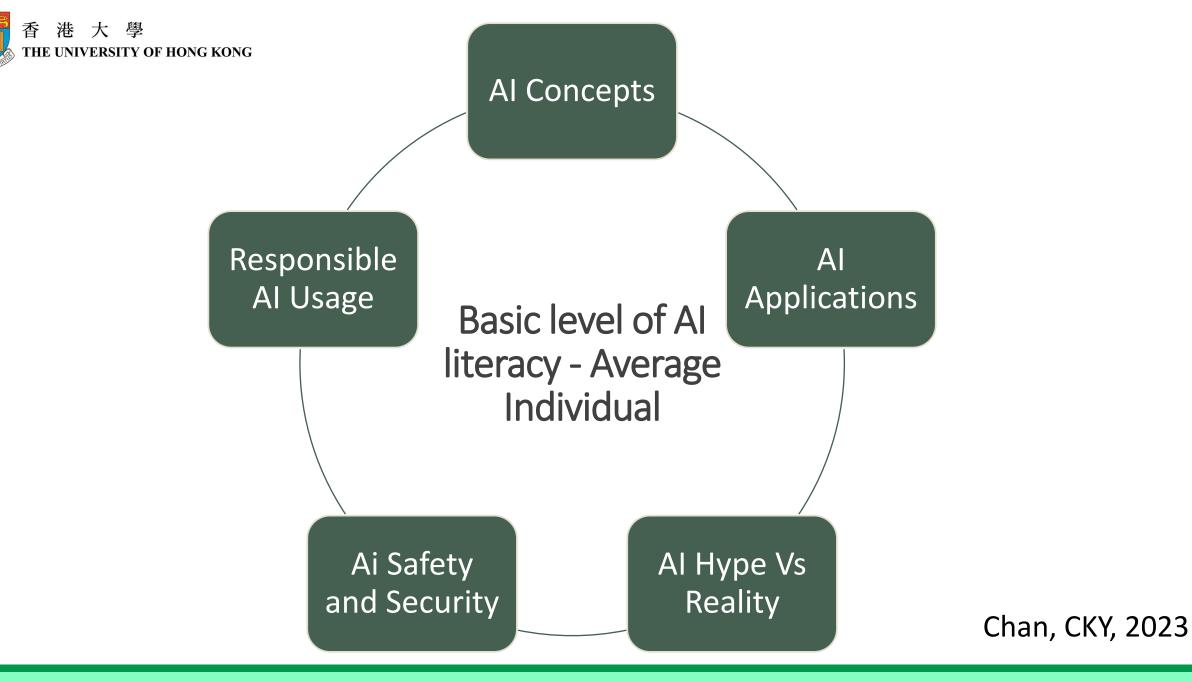
Al Literacy



Definition of AI literacy for Typical Individual

Al literacy for a typical individual is the ability to comprehend, interact with, and make informed decisions regarding AI technologies in daily life. It involves understanding the basic principles of AI, recognizing its applications, and being aware of ethical, social, and privacy implications while responsibly engaging with AI systems.

Chan, CKY, 2023.





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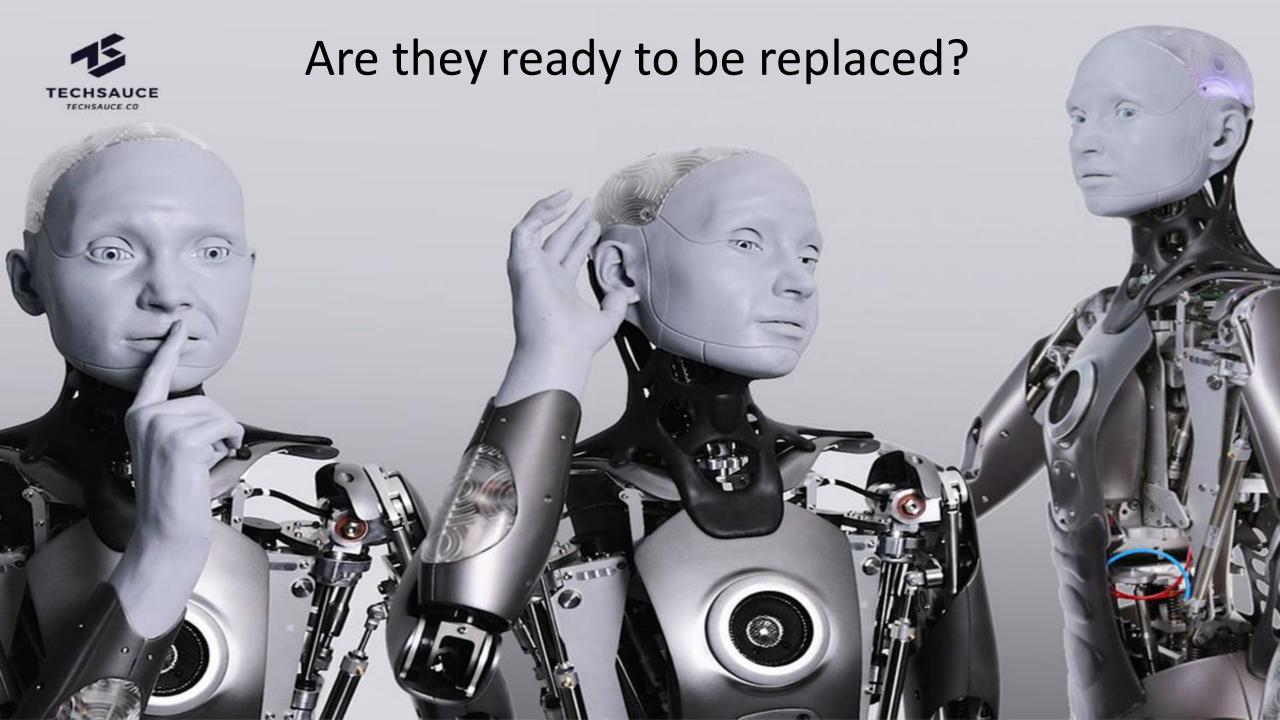
What are your thoughts on this?

Are our students Future Ready?

Are they ready for more unexpected events?

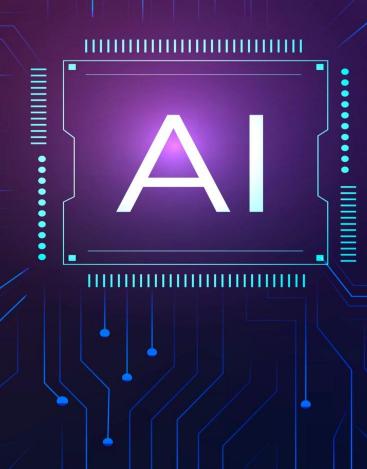
社區檢測中心

Community Testing C



Are they ready to accept new ideas in the new world and have future ready skills?





Can ChatGPT help our students to be Future Ready?

Mentimeter QR Code







What are your thoughts on this?



What can we do to ensure our students are future ready?







Holistic Competencies & Virtues Education https://www.have.hku.hk/



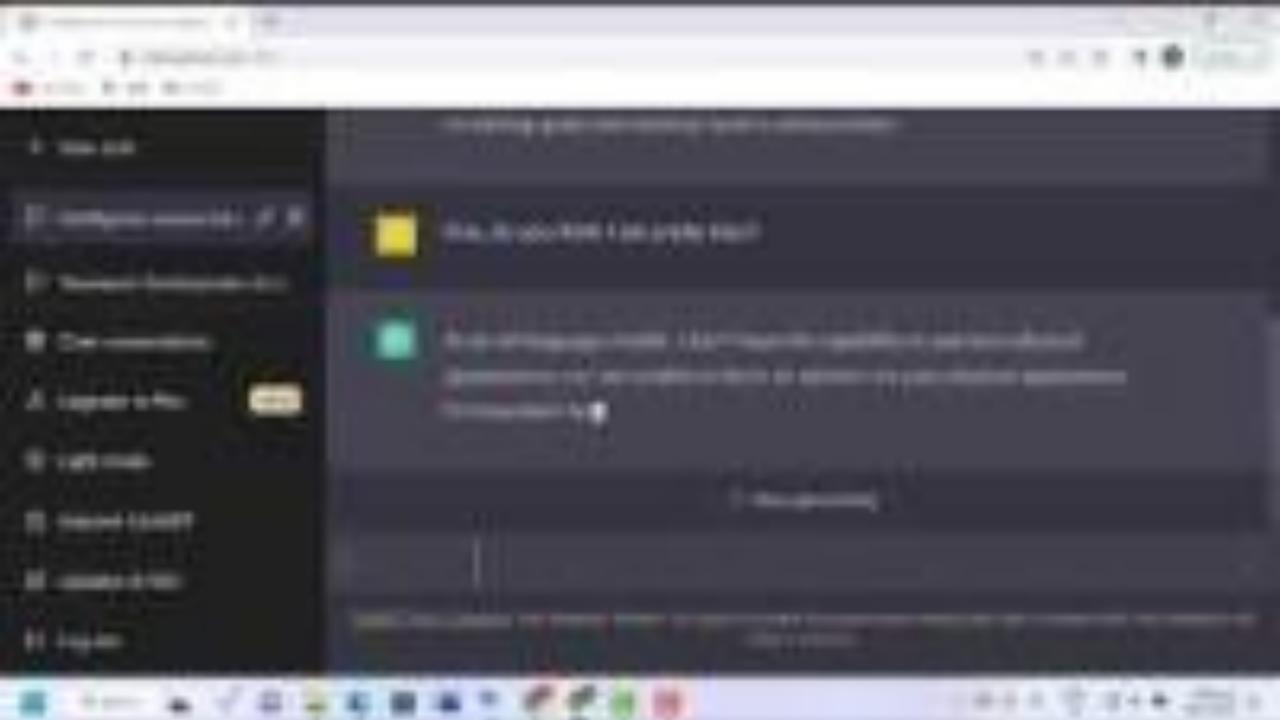
LIFELONG LEARNING

GLOBAL COMPETENCY INFORMATION LITERACY

TEAMWORK

RESILIENCE

COMMUNICATION





So how are we helping our students to showcase these competencies?

Do universities have a systematic plan for HC certification?



International Holistic Competency Foundation

International Accreditation for Employability Competencies





International Partnership Competency

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY





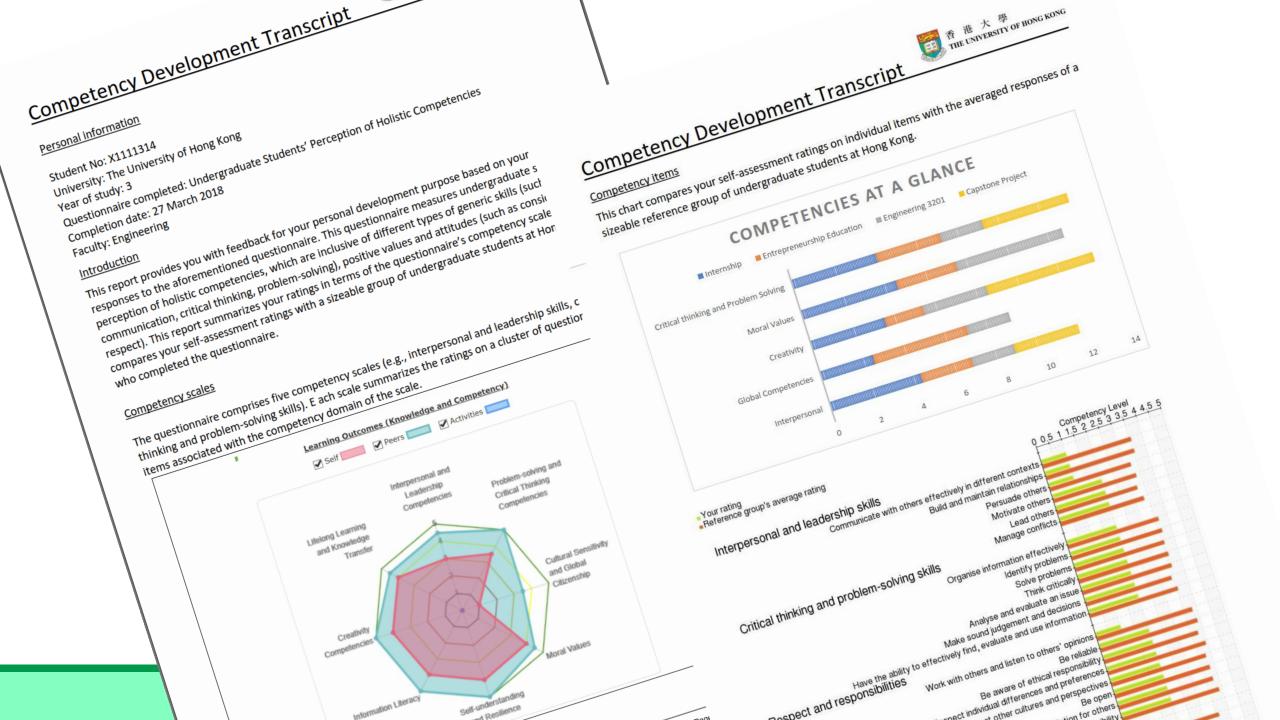


MANY INTERNATIONAL INDUSTRIAL PARTNERS MANY COMMUNITY PARTNERS MANY SCHOOLS AND NON-PROFIT ORGANISATIONS..



Accredit your course for competency

- Your curriculum design towards holistic competency is recognized internationally
- Your course is accredited to provide genuine evidence to showcase the quality of your course in holistic competency
- You can generate direct and indirect evidence of holistic competency development and assessment for quality assurance bodies
- You will become a Fellow of the International Holistic Competency Network and you will receive newsletters, promotions and conference invitations
- Your university, school or organisation will also be recognized as an advocate in this value-added holistic competency



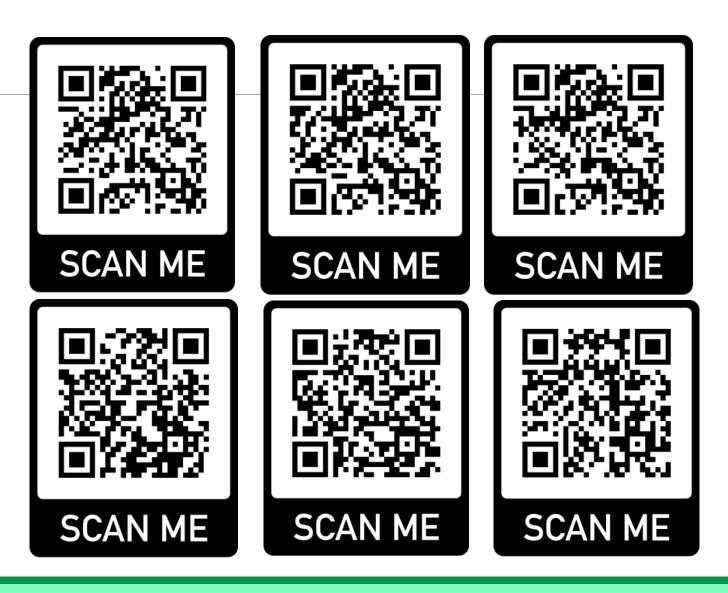


History has shown us that when technologies are used appropriately and judiciously, they work alongside us to improve our way of living. Whether AI technology is a gamechanger for us or a Pandora's box does not matter. What matters is how we can leverage this opportunity while remaining ethical. We need to use our imagination and be Future Ready. The question is, are you ready to move forward with it?



Al in Education

- 1. Al policy
- 2. Al literacy
- 3. Redefine Al-giarism





Thank You

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