

The Future of Higher Education in the world of Al

Empower every learner and educator on the planet to achieve more

Microsoft Indonesia



Industries are accelerating adoption of Al

Al is being embedded in standard business processes



31%
Use virtual agents



23%
Use computer vision



32%
Use natural language text understanding



24%
Use robotics

Students will become workers, managers, and leaders in these industries and more

Education professionals can benefit from Al

93%

knowledge workers in Indonesia use generative AI at work, one of the highest rates globally (75%)

78%

of AI users are bringing their own AI tools to work, often without company guidance.

Al can transform education



53% of educator skills need to be performed by humans, 45% could be augmented by AI For every \$1 an organization invests in AI, it is realizing an average return of

\$3.42



of leaders say people will need new skills to prepare for Al

there will always be two sides to a coin



Manfaat dan Tantangan AI dalam Pendidikan Serta Strategi Mengatasi Plagiarisme

Meilani Teniwut

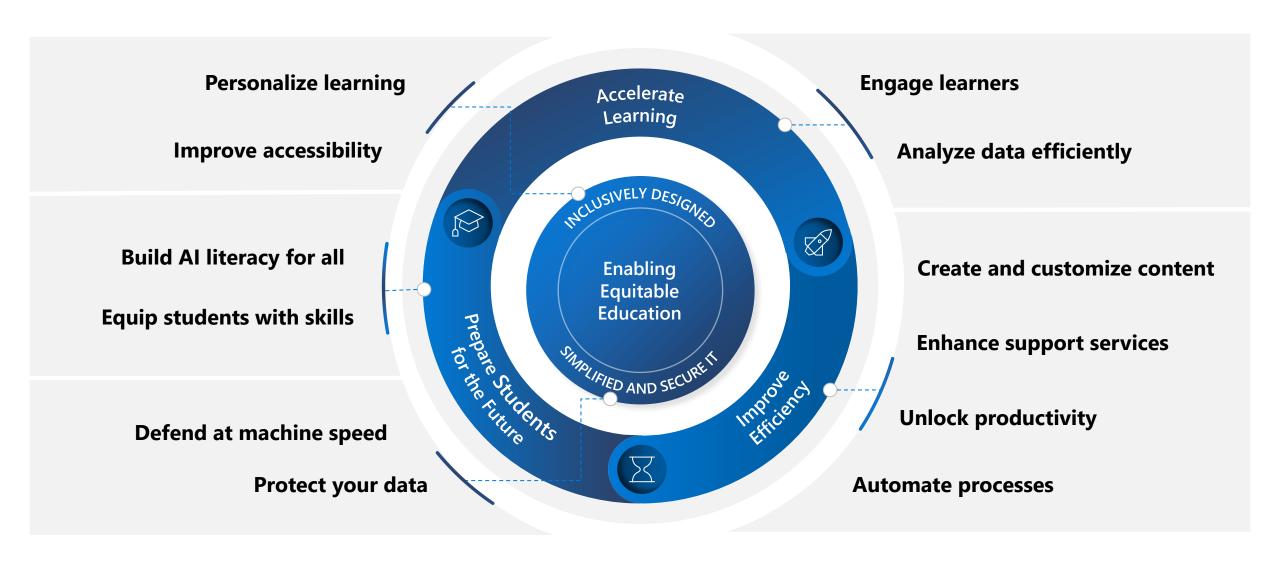
01/8/2024 06:45



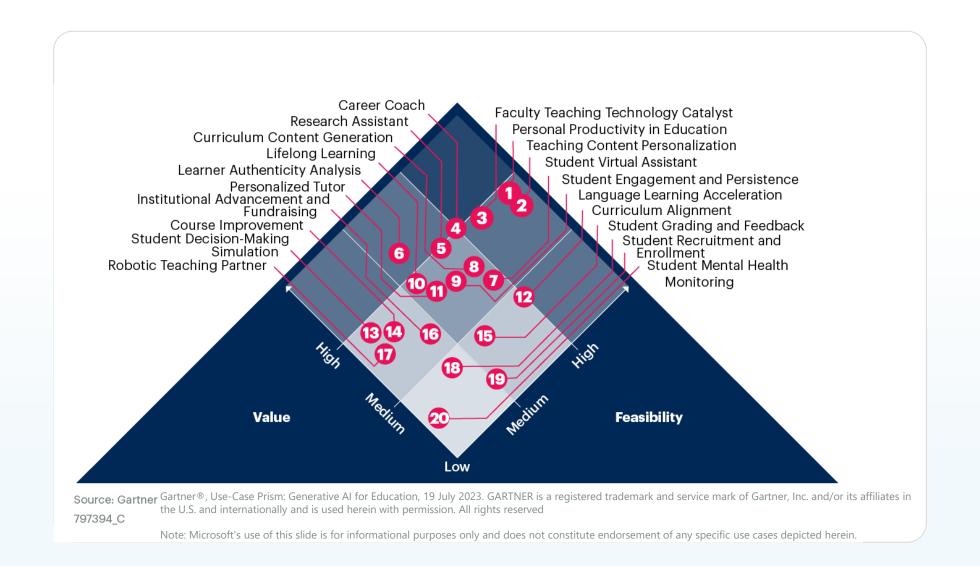
+



Opportunities for AI in Education



Generative AI Use-Case Prism for Education



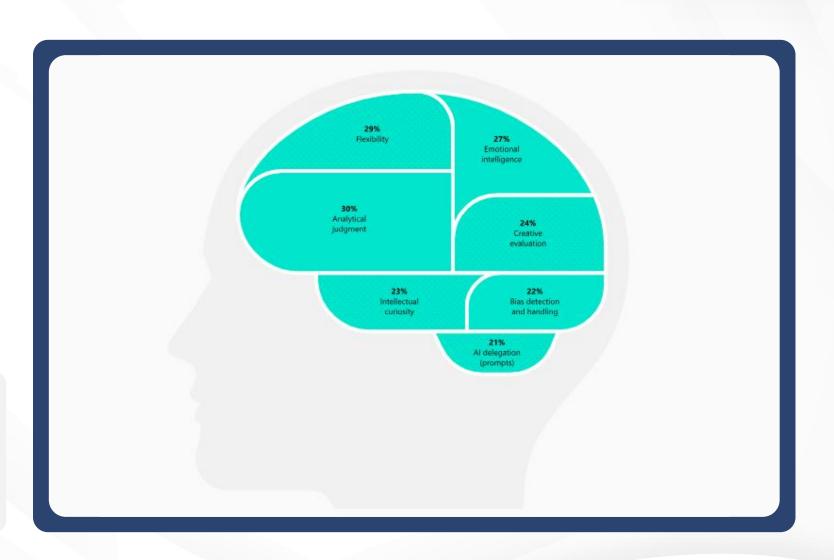
Al Requires New Skills for a New Way of Working



82% of leaders say their employees will need new skills to be prepared for the growth of Al.

Source: 2023 Work Trend Index

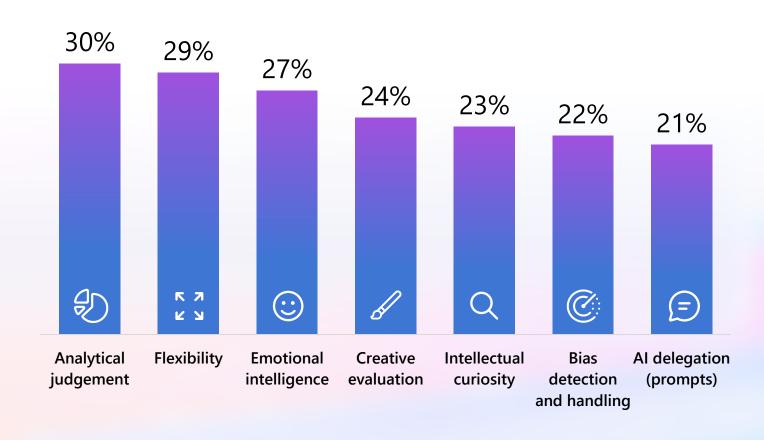
How does the AI era of work impact how we teach and what we need our students to learn?



Employees need AI aptitude



of leaders say employees will need new skills to prepare for Al



Everything changes with Generative Al



Students are creators and evaluators of content, not just consumers



Curriculum/Content

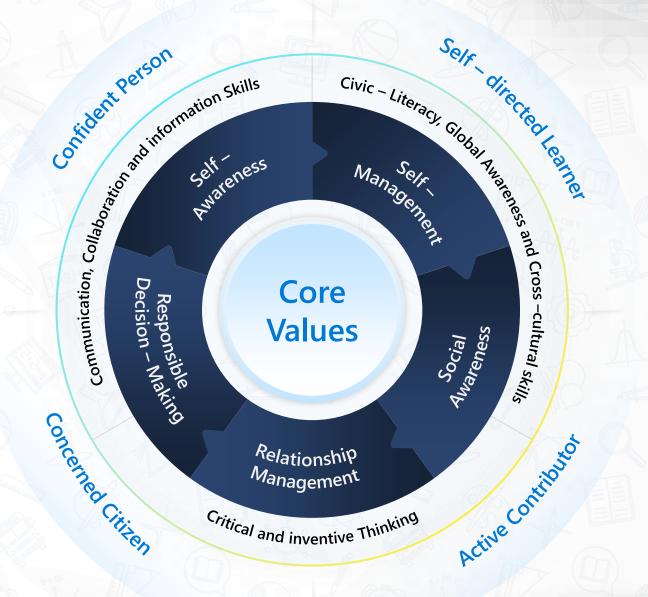


Pedagogy/Andragogy



Assessment

Future of Education: Student Outcomes





Novel and Accelerated

Research with Generative Al

Letter to the Editor | Published: 19 April 2023

GPT-4: a new era of artificial intelligence in medicine

Ethan Waisberg [™], Joshua Ong, Mouayad Masalkhi, Sharif Amit Kamran, Nasif Zaman, Prithul Sarker, Andrew G. Lee & Alireza Tavakkoli

Irish Journal of Medical Science (1971 -) (2023) Cite this article

Accelerating Innovation With Generative AI: AI-Augmented Digital Prototyping and Innovation Methods

June 2023 · IEEE Engineering Management Review PP(99):1-5

DOI:10.1109/EMR.2023.3272799

License · CC BY 4.0

Generative Artificial Intelligence GPT-4 Accelerates Knowledge Mining and Machine Learning for Synthetic Biology

hengyang Xiao, Wenyu Li, Hannah Moon, Garrett W. Roell*, Yixin Chen*, and Yinjie J. Tang*

Publication Date: September 8, 2023 ~ https://doi.org/10.1021/acssynbio.3c00310 Copyright © 2023 American Chemical Society





Generative AI is dreaming up new proteins

Move over, chatbots and image generation. Al-powered protein design is having a moment by Laura Howes

April 10, 2023 | A version of this story appeared in Volume 101, Issue 12

OPINION | Published: 08 August 2023

How to Harness Generative AI to Accelerate Human Learning

W. Lewis Johnson ☑

International Journal of Artificial Intelligence in Education (2023) Cite this article

Synthetic Data Generation by Artificial Intelligence to Accelerate Research and Precision Medicine in Hematology

Saverio D'Amico ¹, Daniele Dall'Olio ², Claudia Sala ³, Lorenzo Dall'Olio ², Elisabetta Sauta ¹, Matteo Zampini ¹, Gianluca Asti ¹, Luca Lanino ¹, ⁴, Giulia Maggioni ¹, ⁴, Alessia Campagna ¹, Marta Ubezio ¹, Antonio Russo ¹, Maria Elena Bicchieri ¹, Elena Riva ¹, Cristina A Tentori ¹, Erica Travaglino ⁴, Pierandrea Morandini ¹, Victor Savevski ¹, Armando Santoro ¹, ⁴, Iñigo Prada-Luengo ⁵, Anders Krogh ⁵, Valeria Santini ⁶, Shahram Kordasti ⁷, ⁸, Uwe Platzbecker ⁹, Maria Diez-Campelo ¹⁰, Pierre Fenaux ¹¹, Torsten Haferlach ¹², Gastone Castellani ², Matteo Giovanni Della Porta ¹, ⁴

Affiliations + expand

PMID: 37390377 PMCID: PMC10569771 (available on 2024-06-30) DOI: 10.1200/CCI.23.00021

Accelerating Climate Resilient Plant Breeding by Applying Next-Generation Artificial Intelligence



Speeding Up the Engineering of Interactive Systems with Generative AI

Author: Albrecht Schmidt Authors Info & Claims

EICS '23 Companion: Companion Proceedings of the 2023 ACM SIGCHI Symposium on Engineering Interactive Computing Systems • June 2023 • Pages 7–8 • https://doi.org/10.1145/3596454.3597176

Published: 27 June 2023 Publication History

Check for updates

Research professionals are benefiting from Al

>25%

Of researchers use Al to help them write manuscripts

>15%

Of researchers use Al to help them write grant proposals

Source:

Five core pillars of AI readiness



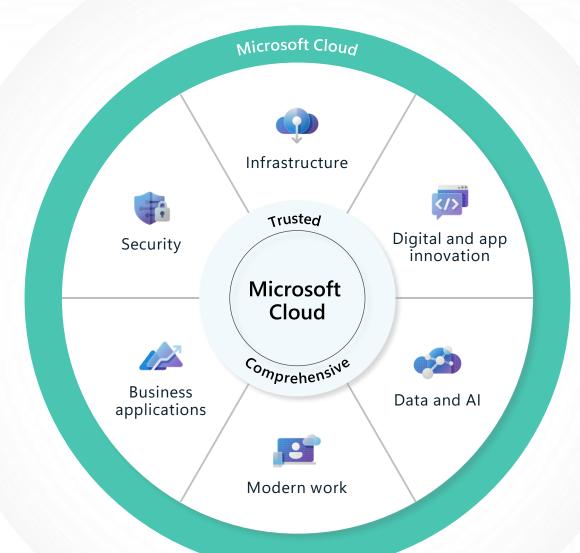
Enabling Al transformation

Enhance learning experiences with Alpowered tools from Microsoft

Unlock productivity across your organization with Microsoft Copilot

Build your AI capability with an open AI platform and partner ecosystem

Co-innovate with trust and safeguard your organization



Top Trends Impacting Education World-wide



Accessible, Flexible, Equitable digital learning environments



Data Analytics and Al for productivity and student success



Cyber Security and Threat Prevention



Role based, personalized user experience for faculty, staff, and students



Application and Infrastructure Modernization



Certifications/
Skilling for Educators
and Learners
Work force Readiness



55

There is no better time to reimagine education and how technology can support that transformation."

Satya Nadella February 2023