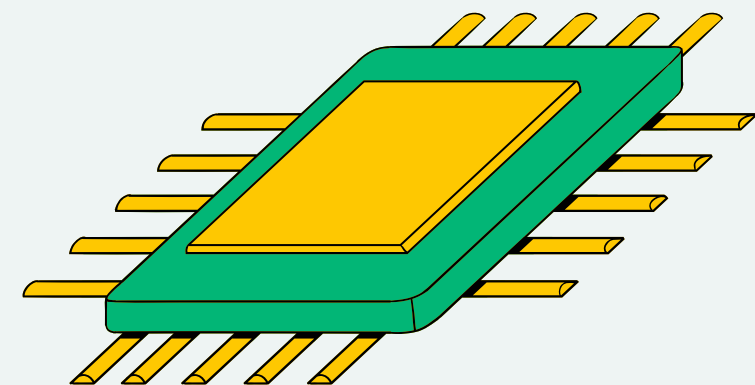


ARTIFICIAL INTELLIGENCE IN EDUCATION

PRESENTED BY:

 ictacademy®





ABOUT ME



**DAVID
LO BASCIO**

IT System Administrator | IT Project Manager
| Network Specialist | Agile Methodology
(Scrum, Kanban) | PhD | CCNP | Cisco ITQ



Artificial Intelligence is not just a buzzword; it's a transformative force that is reshaping industries, solving complex problems, and revolutionizing the way we live and work.



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**HOW DO YOU CONSIDER
YOURSELF ABOUT AI?**



AI IS A FACT, AI IS AN OPINION

Greg Brockman

President & Co-Founder at OpenAI



“Together I believe we can reach the openAI mission of ensuring that that Artificial General Intelligence benefit all of Humanity”

Eliezer Yudkowsky

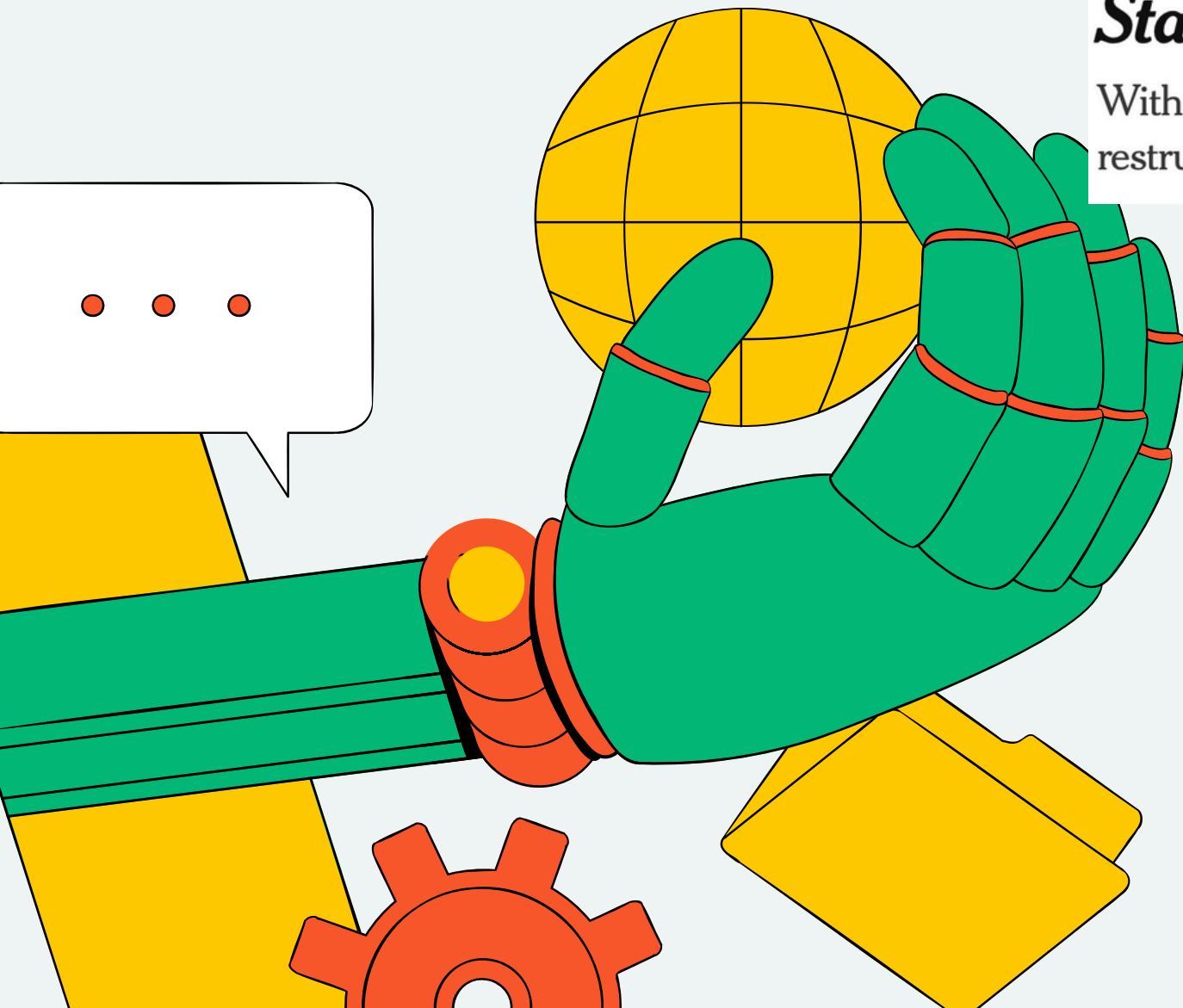
Machine Intelligence Research Institute



“I expect that we all just die”



IS AI DESTROYING EDUCATION?



The New York Times

Does Your Teen Recognize A.I.? Art World Takes On A.I. Putting A.I. in Charge A.I. and

Alarmed by A.I. Chatbots, Universities Start Revamping How They Teach

With the rise of the popular new chatbot ChatGPT, colleges are restructuring some courses and taking preventive measures.

CNET YOUR GUIDE TO A BETTER FUTURE

Trending AI Tech Money Home Wellness Home Internet

ai atlas > Tech > Computing

New York City Schools Ban ChatGPT Amid Cheating Worries

The nation's largest school system is blocking access to the powerful AI-powered chatbot on its networks.

SECTIONS



NEW YORK POST

Professor catches student cheating with ChatGPT: 'I feel abject terror'

By Alex Mitchell

Published Dec. 26, 2022 | Updated Jan. 5, 2023, 4:25 p.m. ET

75 Comments

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ChatGPT and the Death of Education

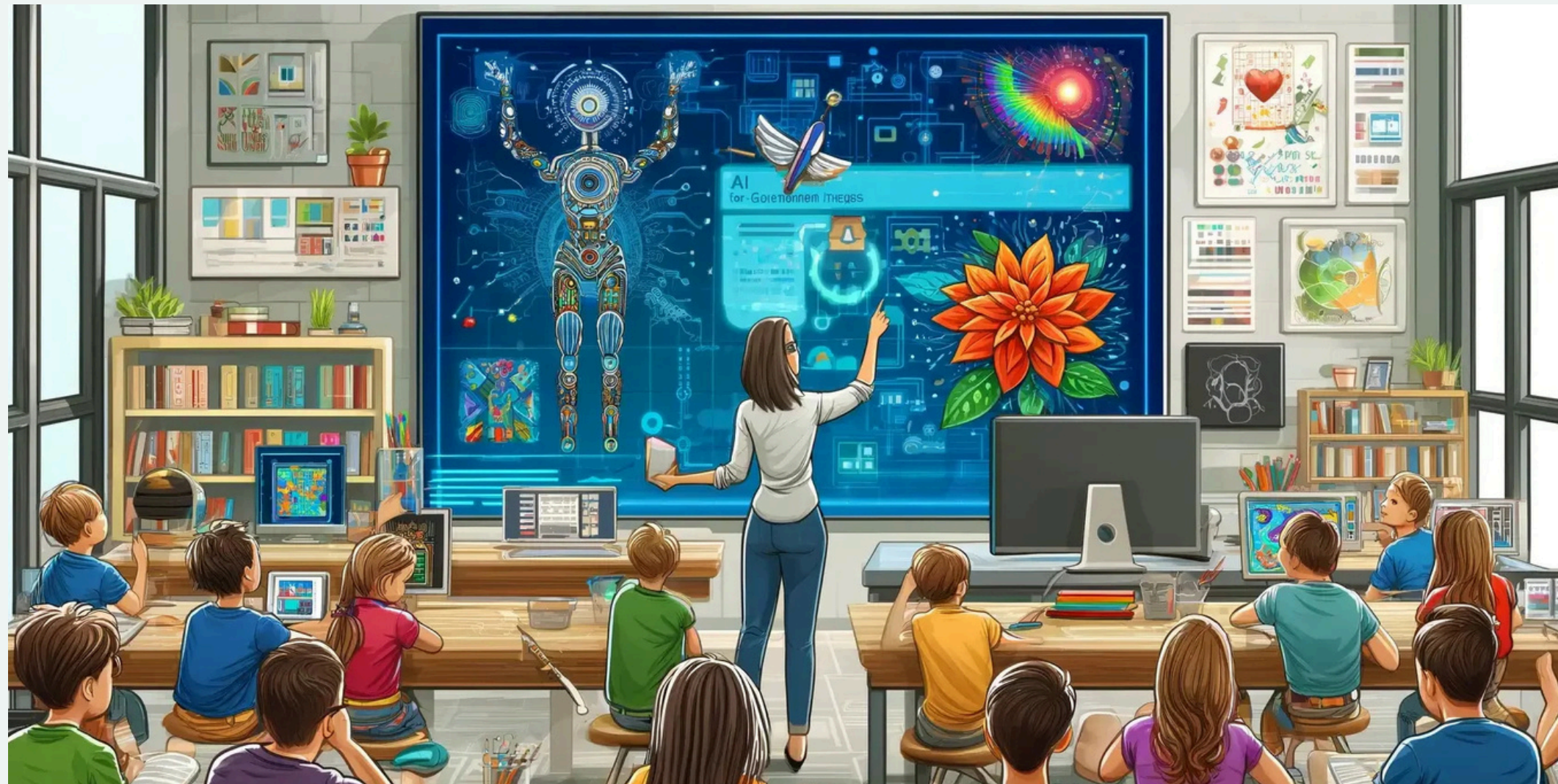
How OpenAI's chatbot can change the way we learn.

MARBELLA MARLO | VISUALS: EL RICHARDS | 02.23.23: THE CELEBRATION ISSUE, NEWS

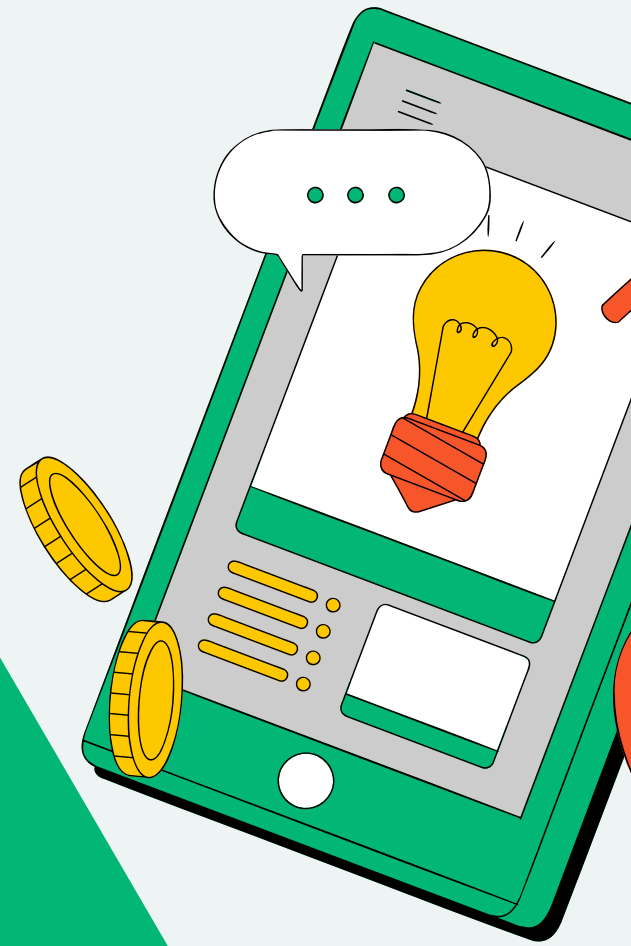


HOW WE MAY TEACH AND LEARN

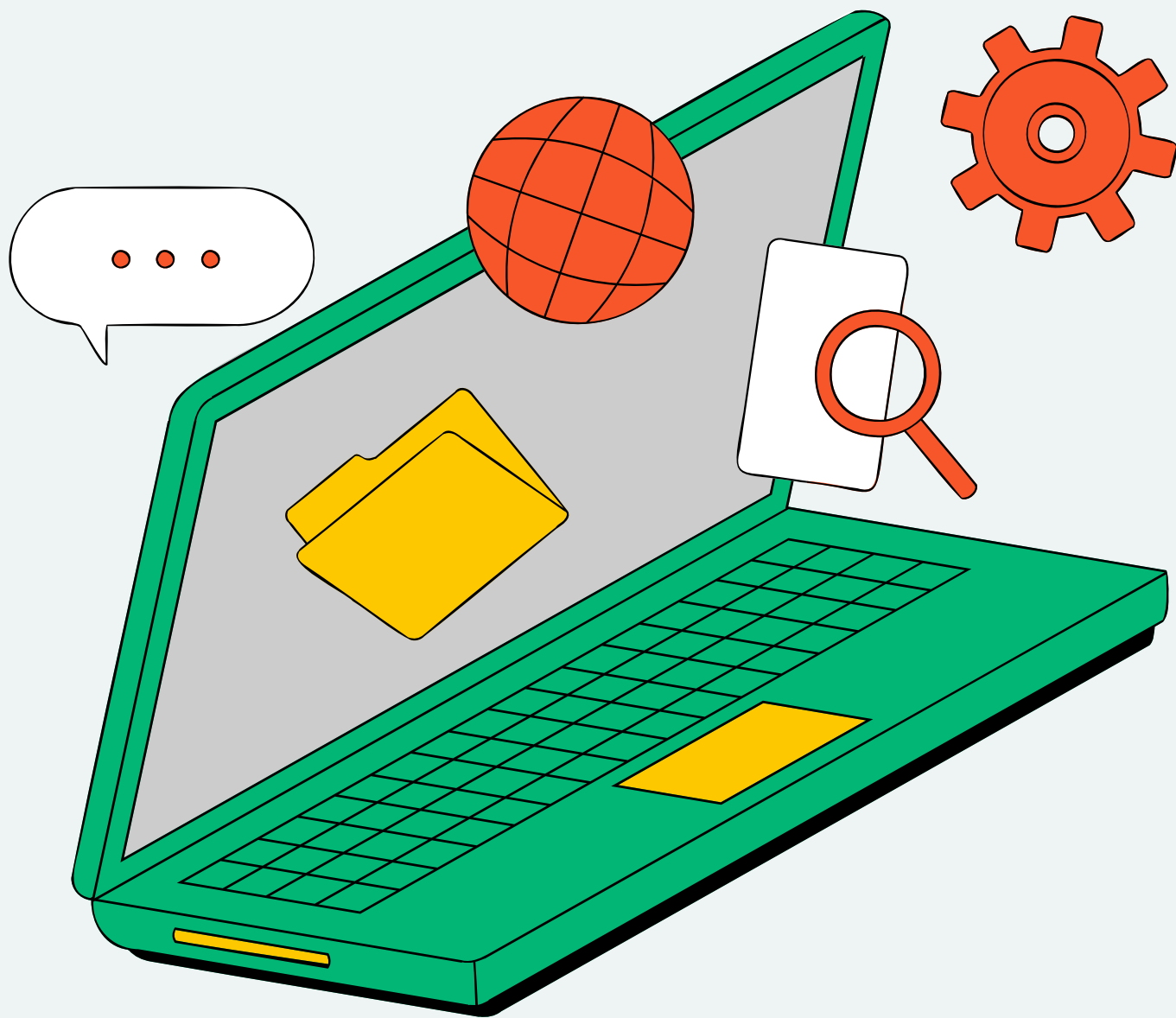
AI is not just changing how we learn,
but also how we teach.



WHAT'S AI IN EDUCATION?



AI FOR LEARNING



Correcting mistakes

Writing Assistant

Prompt for Discussion

Academy/carrer coach



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AI FOR TEACHING

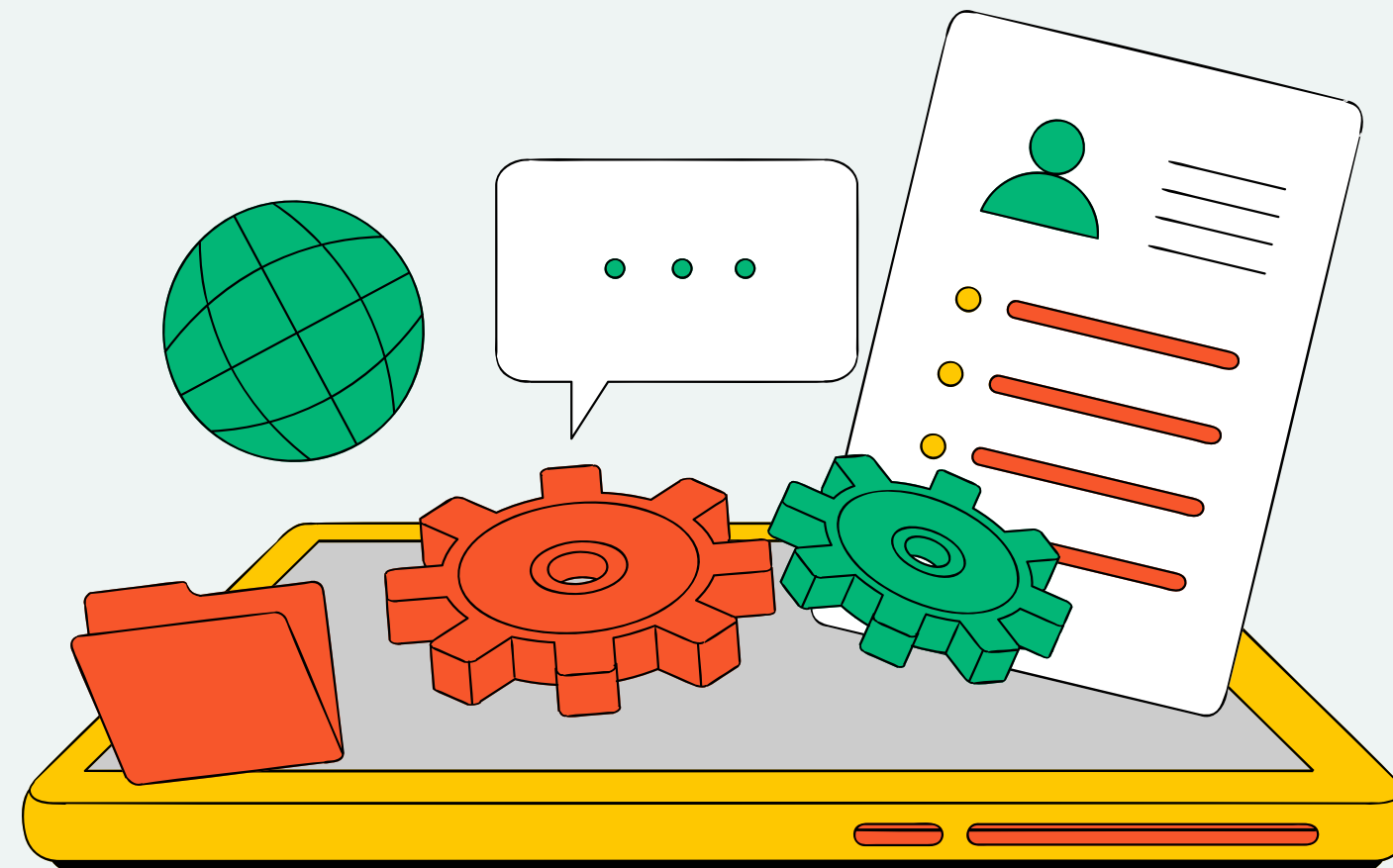
Improving preparation

Creating lesson plans

How to teach a topic

Creating progress reports

SAVING
ENERGY FOR
HUMAN
INTERACTION



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AI AND JOB IMPACT

THE FUTURE OF EMPLOYMENT: HOW SUSCEPTIBLE ARE JOBS TO COMPUTERISATION?*

Carl Benedikt Frey[†] and Michael A. Osborne[‡]

September 17, 2013

GPTs are GPTs: An Early Look at the Labor Market Impact Potential of Large Language Models

Tyna Eloundou¹, Sam Manning^{1,2}, Pamela Mishkin^{*1}, and Daniel Rock³

¹OpenAI

²OpenResearch

³University of Pennsylvania

August 22, 2023

Received: 4 April 2020 | Revised: 15 April 2021 | Accepted: 19 April 2021 | Published on: 8 May 2021
DOI: 10.1002/smj.3286

RESEARCH ARTICLE

STRATEGIC MANAGEMENT
WILEY

Occupational, industry, and geographic exposure to artificial intelligence: A novel dataset and its potential uses

Edward Felten¹ | Manav Raj² | Robert Seamans²

¹Princeton University, Princeton, New Jersey

²NYU Stern School of Business, New York, New York

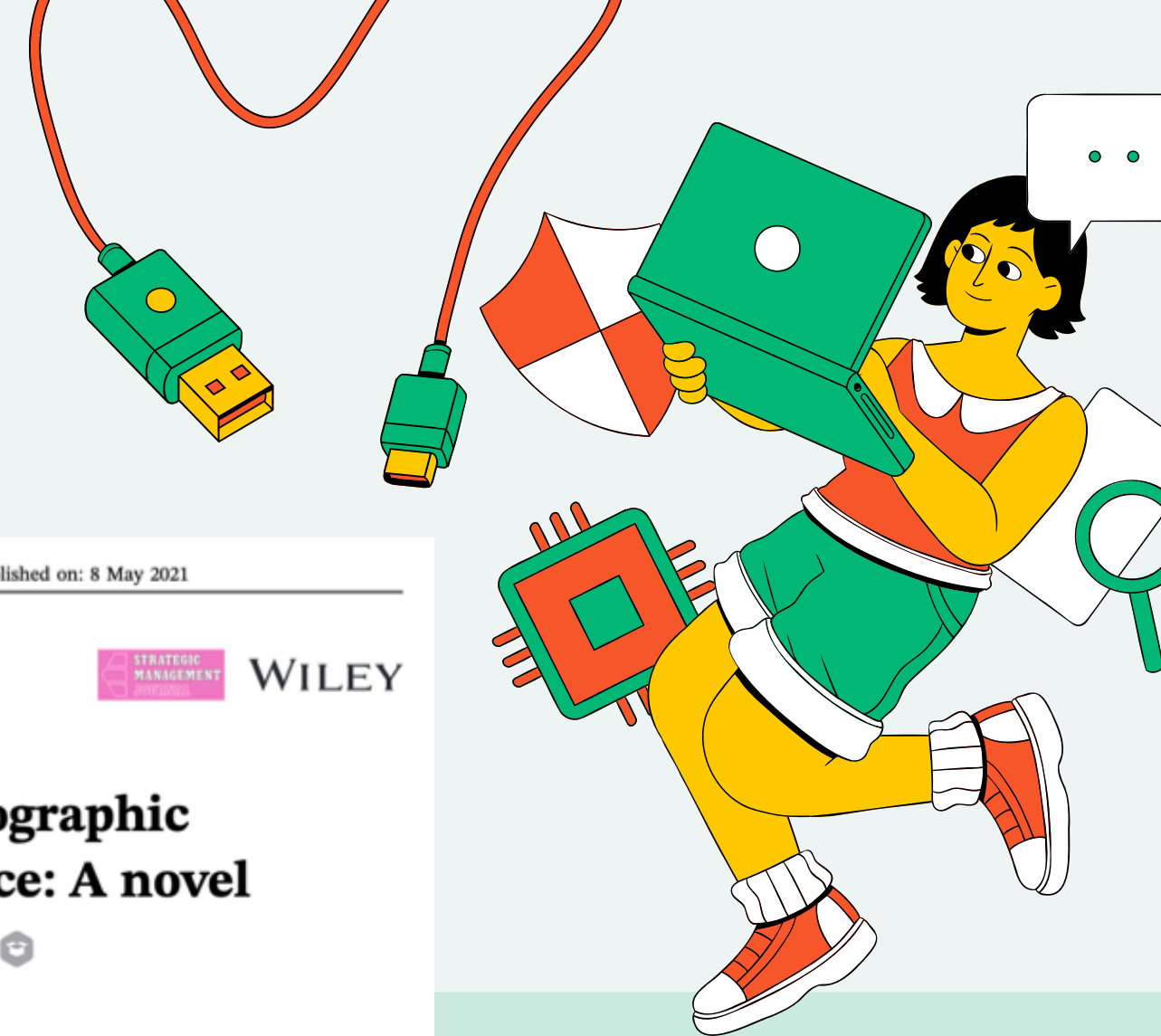


► ILO Working Paper 96

August / 2023

► Generative AI and Jobs: A global analysis of potential effects on job quantity and quality

Authors / Paweł Gmyrek, Janine Berg, David Bescond



AI-ENABLED ICT WORKFORCE CONSORTIUM

VISION

- Enable success of the ICT workforce in the AI era

MISSION

- Create frameworks and provide actionable insights to help workers and employers leverage the transformational opportunity of AI on ICT jobs

Consortium Participants



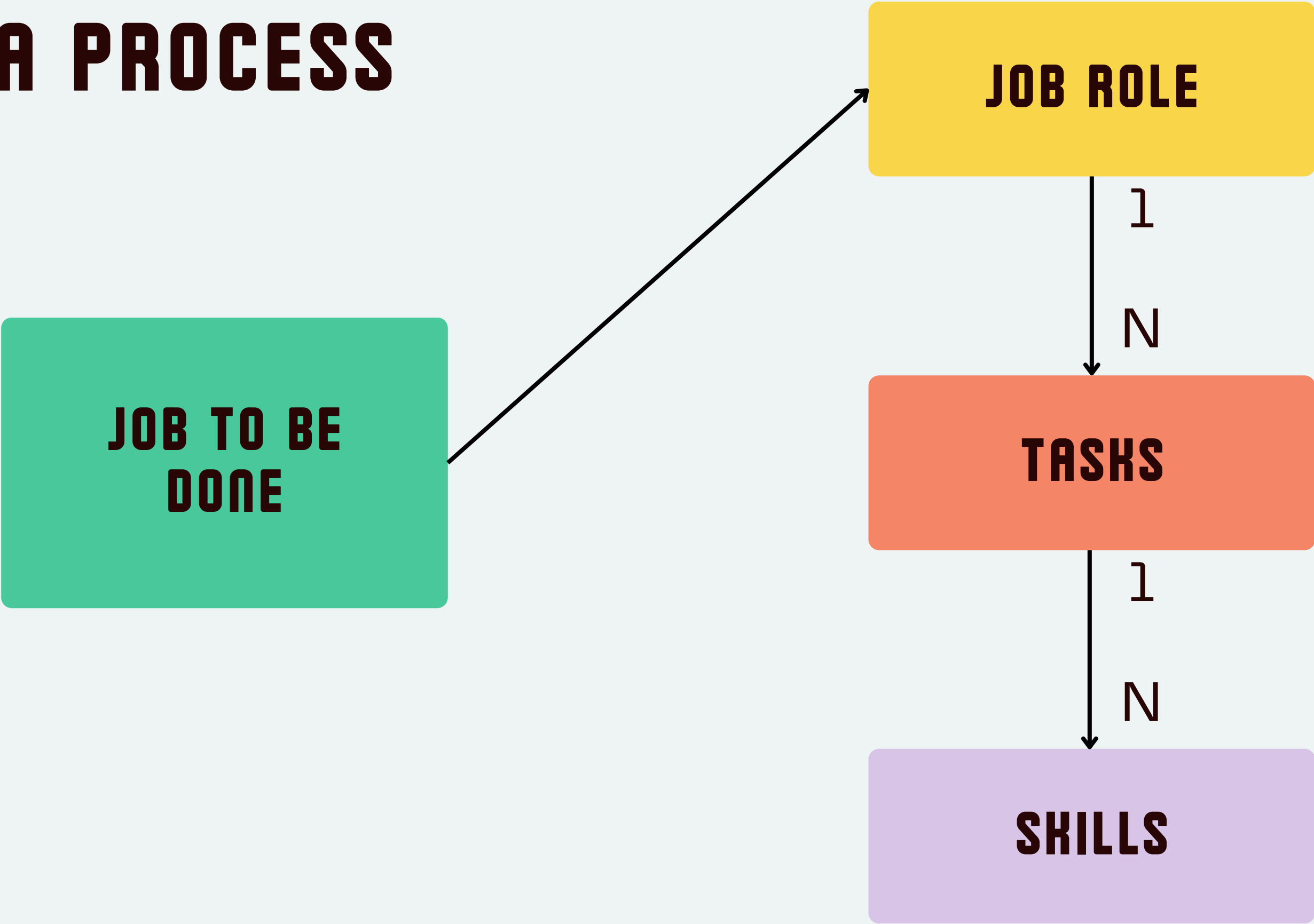
Consortium Advisors



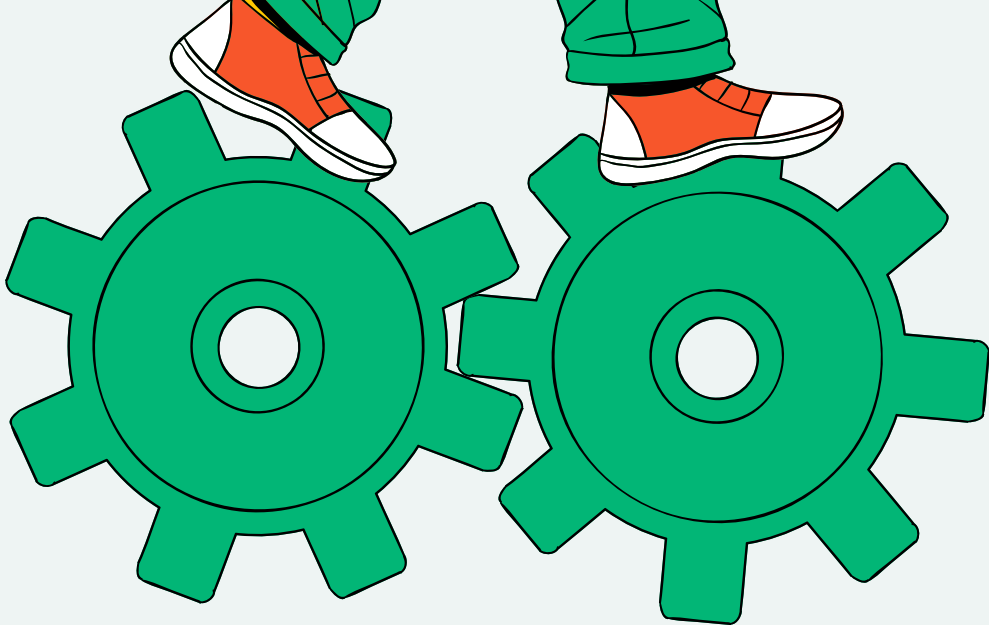
The Transformational Opportunity of AI on ICT Jobs

Executive Summary

JOB AS A PROCESS



JOB TRANSFORMATION CANVAS



Description

A role description outlines the duties and responsibilities expected of the person in role, encompassing tasks to be performed, areas of accountability, and a summary of necessary skills, knowledge, and attributes.

Principal Tasks

Include here the most important Tasks associated with the Job Role.

Principal Skills

Outline the prevalent skills necessary for the job role, covering both technical expertise and soft/professional skills vital for executing the role's primary tasks effectively

JOB ROLE

Executive Summary

This section provides an overarching narrative about how AI will change the job at a macro level.

Transformation Potential Label: *High, Medium, Low*

Key Insights

This section dives deeper into specific findings, supported by data and narratives. It serves to substantiate the claims made in the Impact Summary with evidence and detailed analysis, giving the reader concrete takeaways.

Skills Dynamics

This section presents how the specific job skills will be influenced by AI, identifying those that will increase in relevance, decrease in relevance, remain stable, and highlight newly emerging skills essential for future readiness.

TRANSFORMATION

Training Recommendations

In this section, educational opportunities will be organized and listed, noting whether they are complimentary or require payment. There are two macro categories of training recommendations: those that are specific to a job and those that are common across multiple jobs. Each offering will be tagged with the skills they target.

Job Specific

Detail targeted training tailored to address the AI's impact on the specific job role.

Common Foundation

Core training programs that equip individuals with versatile skills applicable to various job roles in adapting to the widespread influence of AI

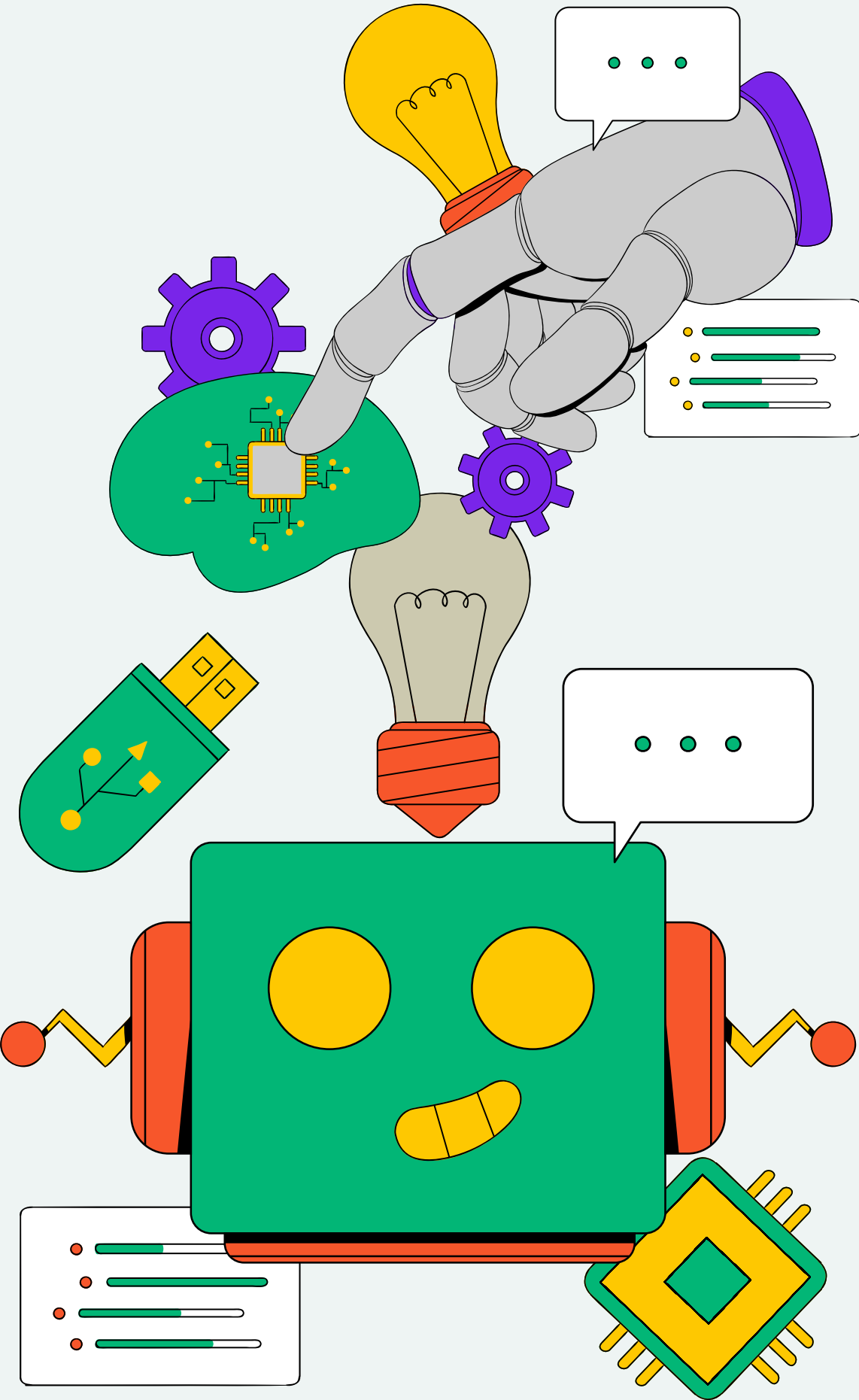
RECOMMENDATION



JOB ROLES ORGANIZED INTO SEVEN JOB FAMILY CLUSTERS, FUNCTIONAL GROUPS, AND CATEGORIZED BY SIMILAR TECHNICAL AND FUNCTIONAL RESPONSIBILITIES.

Job family	Definition	Job role	
Business and Management	Managing the development, business analysis and marketing of technology products and services	<ul style="list-style-type: none">• Business Analyst• Business Intelligence Analyst• Business Systems Analyst• Customer Service Representative	<ul style="list-style-type: none">• Digital Marketing Specialist• Product Manager• Project Manager• Senior Product Manager
Cybersecurity	Protecting systems, networks, and data from security breaches and cyberattacks	<ul style="list-style-type: none">• Cybersecurity Analyst• Information Security Analyst• Information Security Specialist	<ul style="list-style-type: none">• Ethical Hacker• Soc Analyst Level 1
Data Science	Analyzing and interpreting large sets of data to extract valuable insights	<ul style="list-style-type: none">• Data Analyst• Data Engineer	<ul style="list-style-type: none">• Data Scientist• Data Specialist
Design and User Experience	Designing the user experience and interface	<ul style="list-style-type: none">• Design Engineer• Product Designer Engineer	<ul style="list-style-type: none">• UX Designer
Infrastructure and Operations	Managing and maintaining computer networks, including installing and configuring network equipment and troubleshooting network issues	<ul style="list-style-type: none">• Database Administrator• Help Desk Analyst• IT Manager• IT Support Specialist• Network Administrator• Network and IT Automation Engineer	<ul style="list-style-type: none">• Network Support Technician• Senior Network Engineer• Systems Administrator• Systems Analyst
Software Development	Designing, coding, testing, and maintaining software applications and systems	<ul style="list-style-type: none">• AI / ML Engineer• Application Developer• Back End Developer• Cloud Engineer• Front End Developer• Full Stack Developer• Java Developer• Principal Software Engineer• Python Developer• Software Architect	<ul style="list-style-type: none">• Software Developer• Senior Software Development Engineer• Software Engineer• Senior Software Engineer• Web Developer
Testing and Quality Assurance	Providing technical support and assistance to users	<ul style="list-style-type: none">• Software Test and Debug• Technical Writer	<ul style="list-style-type: none">• Quality Assurance Analyst

- 92% of the 47 ICT job roles analyzed are expected to experience either moderate or high transformation due to advancements in AI
- 37% of entry-level positions and 40% of mid-level positions of the analyzed jobs are expected to have high levels of transformation due to AI
- Essential common foundational skills across ICT job roles for AI preparedness include
- **AI Literacy, Data Fundamentals, Prompt Engineering**



SKILLS RELEVANCE IN THE AGE OF AI



Top 10 technical skills expected to increase in relevance
(% of job roles)

100%	AI ethics and responsible AI
100%	AI literacy
66%	Prompt engineering
20%	Large Language Models (LLM) architecture
20%	Agile methodologies
20%	Data analytics
11%	Machine learning
11%	Retrieval augmented generation
11%	TensorFlow
9%	Natural language processing

Top 10 technical skills expected to become less relevant
(% of job roles)

31%	Basic programming and languages
18%	Content creation
18%	Data management
16%	Research information
13%	Documentation maintenance
13%	SQL
7%	Manual XML handling
7%	Manual Perl scripting
7%	Integration software
4%	Manual malware analysis



PREPARING FOR THE FUTURE



Despite the concerns, limitation and the risks, Generative AI has the potential to be transformative for education.

In embracing this transition, we must make sure that we do it within a secure, ethical and responsible framework.

