



Navigating the Future - AI's Impact on Education

22 March 2024


# AI: from Coach to Copilot

Dr Cris Bloomfield  
Senior Education Architect




# AI technology is creating impact.

 **New Bing with ChatGPT brings the power of AI to Microsoft's signature search engine**


 **How AI Is Shaping the Future of Higher Ed**

M'hammed Abdous considers the myriad ways artificial intelligence is transforming higher education's administrative, teaching and research practices.


 Menu +

**MICROSOFT / TECH / ARTIFICIAL INTELLIGENCE**  
**Microsoft launches Azure OpenAI service with ChatGPT coming soon /**  
ChatGPT is coming to this Azure service soon, as businesses get to use new AI models in their own apps.

  
CLASSROOM TECHNOLOGY EXPLAINER  
**What Is ChatGPT and How Is It Used in Education?**

  
SOFTWARE  
**Microsoft Makes a Major Investment in ChatGPT Tech**

A multibillion-dollar agreement with OpenAI aims to bring artificial intelligence capabilities to Microsoft tools and the Bing search engine.

  
LIVING → EDUCATION — March 8, 2023  
**An inside look at a 5th grade classroom using ChatGPT**

AI is here.



# Russell Group published principles on the use of AI in education

4<sup>th</sup> July 2023

The statement lists five principles:

1. Universities will support students and staff to become AI-literate.
2. Staff should be equipped to support students to use generative AI tools effectively and appropriately in their learning experience.
3. Universities will adapt teaching and assessment to incorporate the ethical use of generative AI and support equal access.
4. Universities will ensure academic rigour and integrity is upheld.
5. Universities will work collaboratively to share best practice as the technology and its application in education evolves.

“Radically accelerate  
employee productivity  
and capability”

Scott Guthrie

A **large language model** is a type of artificial intelligence that can process and produce natural language texts.

It **learns** from a massive amount of text data, such as books, articles, and web pages, and **discovers the patterns and rules of language** from them.

It can do various tasks, such as answering questions, summarizing texts, writing essays, and more.

**Prompt:**
















In 100 words or less, please tell me what a large language model is

**Prompt:**

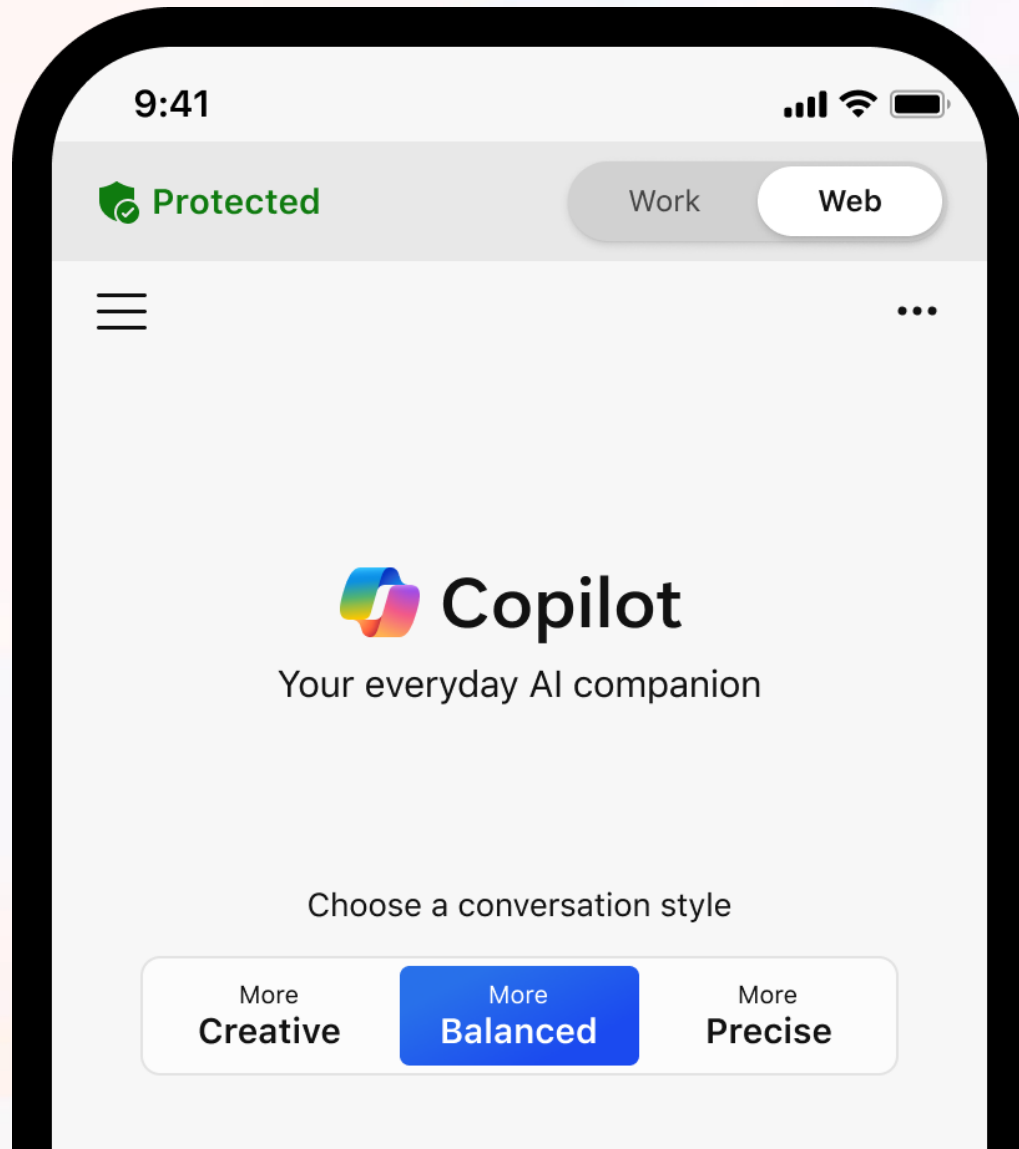
In the style of John Constable produce an image of Hyde Park in central London



# AI in Microsoft Cloud solutions

AI Use Case	Where to Try	Powered By
Assisted Coding & Generated Content	 	Azure OpenAI Service
Copilot for every job role	   Microsoft Security	Azure OpenAI Service
Content & Design Production		Azure Machine Learning
Personalized Recommendations		Azure Machine Learning
Contextual Assistance		Azure Cognitive Services
Image Captioning, SEO & Accessibility		Azure Cognitive Services
Speech Transcription & Captioning		Azure Cognitive Services
Insider Risk Management	 Microsoft Security	Azure Cognitive Services
Personalized Learning	 Microsoft Education	Azure Applied AI
Content Reading & Writing Experiences		Azure Applied AI
Extract Text from Documents & Structure Data		Azure Applied AI
Search as a Service	 Microsoft Bing	Azure Applied AI

# Users can take power of AI on the go with the Copilot app

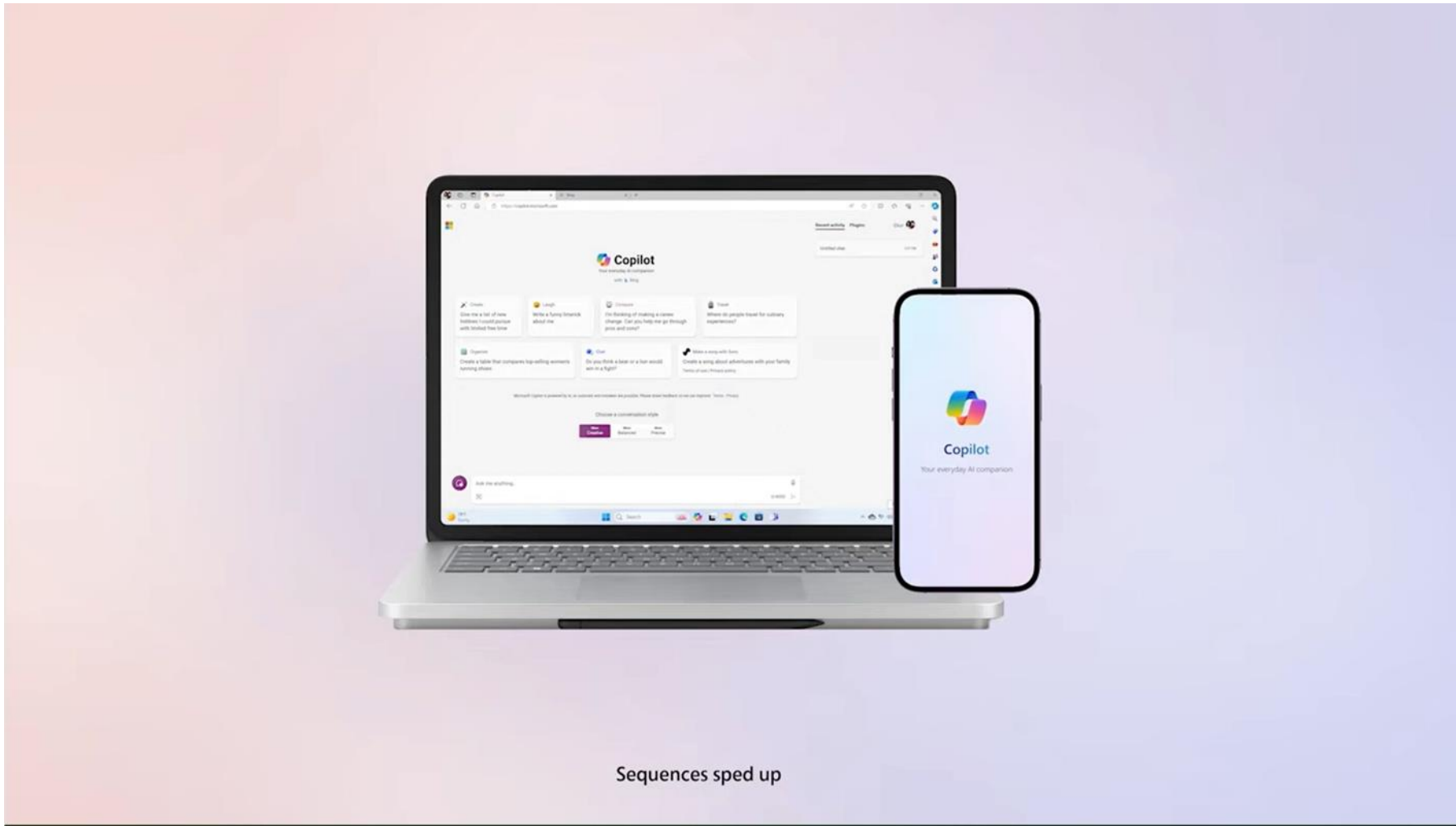


A promotional banner for the Copilot app. It features the Copilot logo on the left and the word 'Copilot' in a large, bold font on the right. Below the logo, the text reads 'Take the power of AI on the go with the Copilot app. Your everyday AI companion.' In the center, it says 'Download the Copilot app' with a curved arrow pointing to a QR code on the right. At the bottom, there are two buttons: 'Download on the App Store' and 'GET IT ON Google Play'.

Download the Copilot mobile app at [aka.ms/Copilot/MobileApp](https://aka.ms/Copilot/MobileApp)



# Copilot App



Sequences sped up

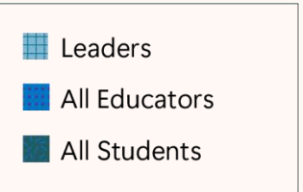
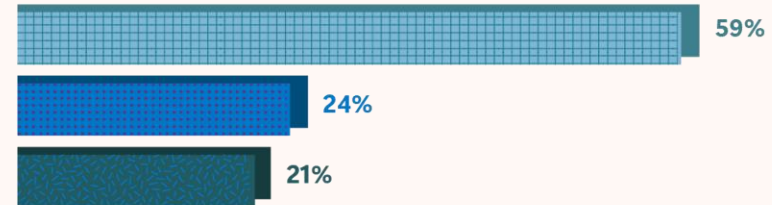
<https://www.youtube.com/watch?v=nKcyU8hh14Q>

# Bridging the AI literacy gap

Today, use of AI outpaces understanding of the technology. This disconnect points to an urgent need to increase AI literacy and AI integration in strategic priorities, standards, policies, and professional development.

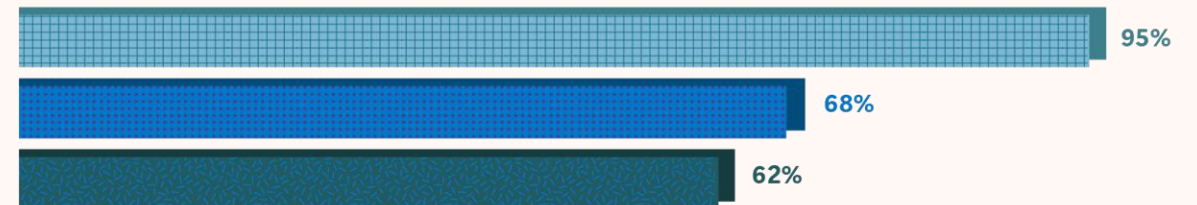
## Familiarity with AI

'Know a lot about AI'

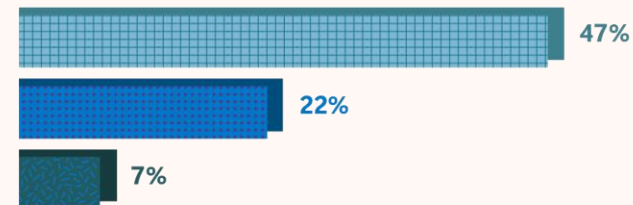


## AI Usage in School Settings

Have used it at least once or twice



Daily Use



Source: AI in Education Microsoft Study (November 2023)

Survey questions: How much do you know about AI (prior to taking this survey)? Select only one. Have you used or tried an AI tool or service before in your role at your educational institution or for school-related purposes? Select only one. How often do you use AI tools/services in your role at your educational institution or for school-related purposes?

# Use Cases

Students most frequently use AI to summarize information, educators leverage AI for class planning and content, and leaders use it to drive process efficiency.

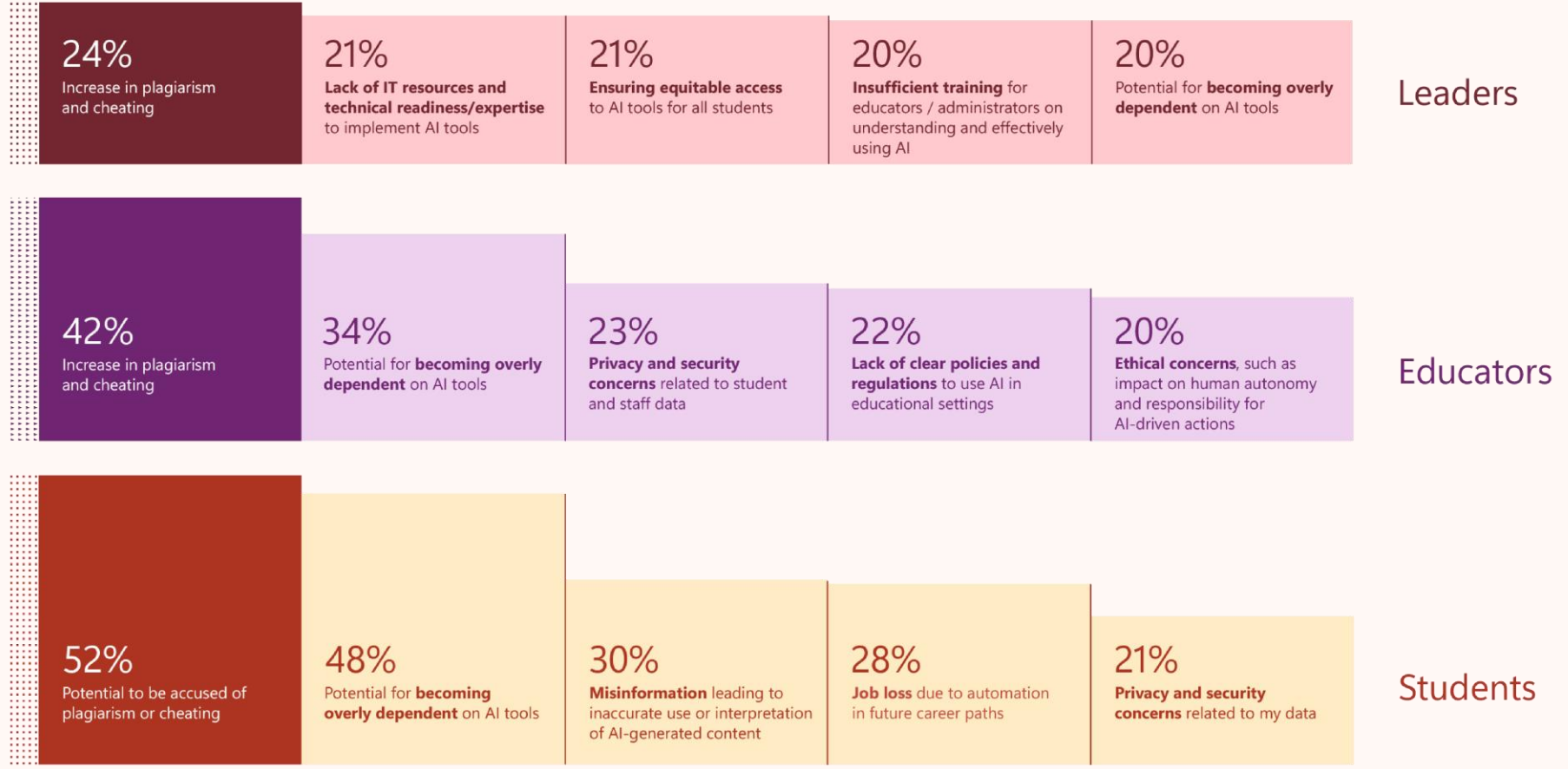


Source: AI in Education Microsoft Study (November 2023)  
Survey questions: For which of the following tasks are you using AI tools in your role?  
For which of the following tasks are you using AI tools as a student?

# What concerns are there?

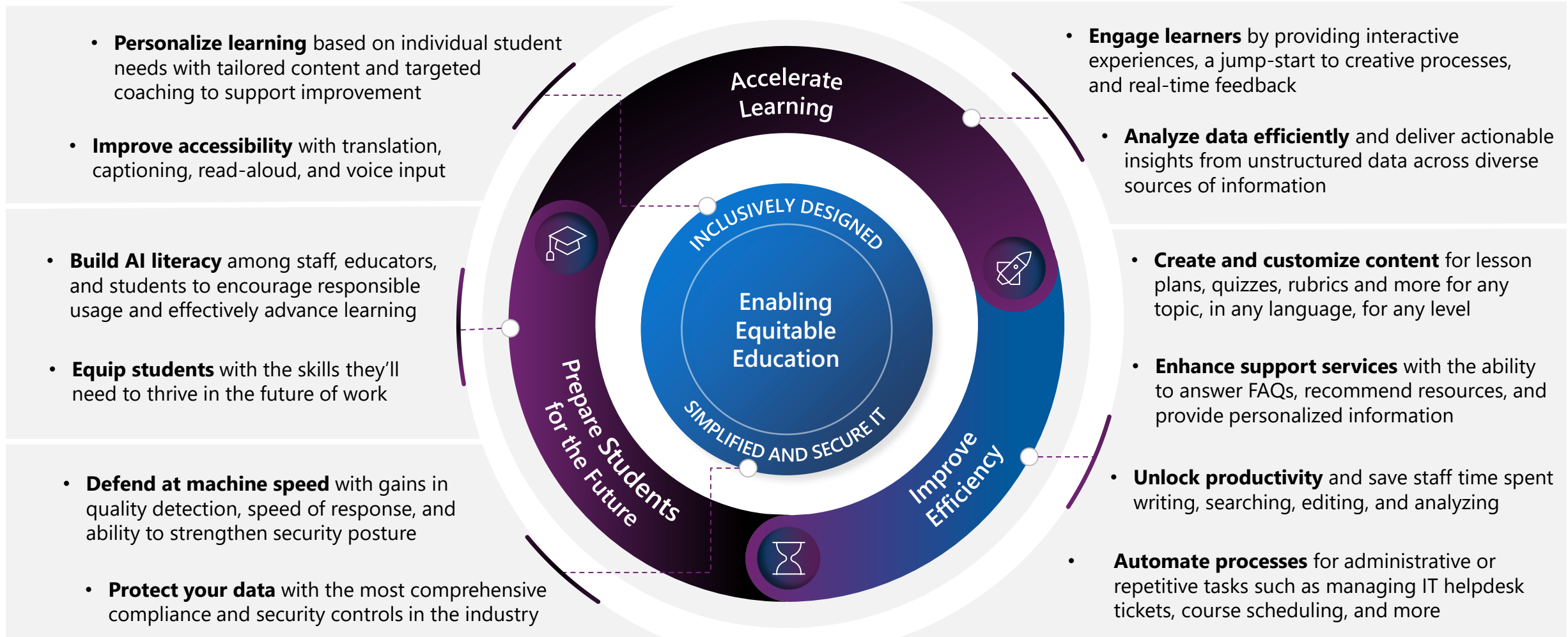
## Challenges

Challenges like data privacy and security, equitable access, training, and mitigating overreliance are critical to address. And concerns around cheating call for rethinking of policy and assessment in a world without reliable AI detection tools.



Source: AI in Education Microsoft Study (November 2023)  
Survey question: Please select the top 3 reasons why you may be concerned about AI usage within your school/district/university.

# Opportunities for AI in Education



# The Impact is Real



built AI tools that emphasize equity, accessibility, and privacy



helps staff search and brainstorm efficiently with Microsoft Copilot



works towards helping more students get to graduation



personalizes student engagement and brings meaning to data chaos



empowers instructors to easily streamline and create course content



expedites faculty workflows with Copilot for Microsoft 365



promotes equality and innovation for students with Microsoft Copilot



transforms the future of higher education



University of Michigan brought generative AI to their campus with a focus on **equity, accessibility, and privacy** using the Azure OpenAI Service

[Read more](#)



*"At the core of our GenAI services is our commitment to provide tools and technologies that enhance, support, and augment humanity. We are confident that our community will utilize these services to make a positive difference in the world. The platform we built with Microsoft provides our users with AI tools that firmly emphasize the importance of equity, accessibility, and privacy."*

– **Ravi Pendse**, Vice President for Information Technology and Chief Information Officer at U-M

# BROWARD COLLEGE

Broward harnessed the power of data and AI with the goal of decreasing its student attrition rate and helping more students get to graduation

[Read more](#)



*“Our students don’t come to quit, they come to finish—but they just don’t always know what’s in the journey ahead of them. We can use this technology to predict and help them succeed.”*

– Dr. Mildred Coyne, Senior Vice President of Workforce Education and Innovation, Broward College

## Situation

Broward College, a nationally recognized public college in Florida, wanted to harness the power of its data to better understand student pathways, with the goal of decreasing its student attrition rate and helping more students get to graduation.

## Solution

Using Azure Machine Learning and responsible AI, the organization identified five key predictors of student attrition, leading to data-driven, actionable strategies to help more Broward College students transform their lives and reach their goals.

## Impact

Through more focused interventions, Broward faculty and staff can help more students achieve their dreams, generating long-term educational, social, and economic impacts for the Broward community.





Anthology empowers instructors by **streamlining the course building process** and giving experts a head start using Azure OpenAI Service

[Read more](#)



“

*We know that instructors are central to practically all the aspects of the student experience. And frankly, they're spread so thin across so many responsibilities. So, in the same way that we built features that identify students who need additional support, we're now using AI to streamline the course building process.*

– Dr. Misty Cobb, Senior Product Manager, Anthology

## Microsoft Copilot



*"We're excited to offer Copilot to our students to help them build important skills, provide personalised feedback and innovative solutions, and ensure their privacy and protection. Free access promotes equality and enables economically disadvantaged students to use these powerful tools that would be otherwise inaccessible.*

**- Mrs. Aune Valk, Vice Rector for Academic Affairs at the University of Tartu, Estonia**



Linköping University adopted Microsoft Copilot to help faculty, researchers, and staff to search efficiently, assist in conducting literature reviews, brainstorm ideas for projects and proposals, and draft content



“

*Our community has been asking for the ability to use a generative AI solution, and I'm pleased to now be able to offer Microsoft Copilot with commercial data protection due to the security and privacy that Microsoft provides.*

– **Joakim Nejdeby**, Chief Information Officer, Linköping University



## CSUSM tracks and personalizes student engagement throughout the lifecycle journey by leveraging Dynamics 365 Customers Insights and Copilot

[Read more](#)



“What the university can do with Dynamics 365 and the power of AI is curate and centralize data. We are bringing meaning to data chaos.”

—**Tony C. Chung**, Chief Information Officer, California State University San Marcos

### Situation

To meet the diverse needs of its students, and to maintain its dedication to their university experience, California State University San Marcos needed a strategic and campus-wide plan to connect siloed and disconnected systems while empowering its staff with efficient communication tools.

### Solution

Using Dynamics 365, CSUSM is streamlining processes and standardizing data while staying focused on the experiences of students, faculty, and the community. It handles school events and recruitment through Customer Insights and AI, creating consistent but customized communications.

### Impact

Through its use of Customer Insights and AI, CSUSM has been able to better understand and personalize the student journey—from recruitment through graduation and beyond.



*"Microsoft Copilot offers a transformative solution for higher education, significantly optimizing time for faculty. This multifaceted tool is already expediting Hoosiers' workflows but also serves as an invaluable resource for cultivating specialized skill sets in AI and technology among our IU community."*

**– Anne Leftwich, Associate Vice President for Learning Technologies at Indiana University**



The eight UGC-funded universities collaborate with Microsoft Hong Kong to transform the future of education, powered by the Azure OpenAI Service

[Read more](#)



Microsoft is collaborating with the universities to harness the potential of the Azure OpenAI Service in developing their own solutions. The solutions will benefit from Microsoft's comprehensive end-to-end enterprise-grade security measures, safeguarding sensitive research and ensuring data privacy within the academic environment. Capabilities being explored include:

#### Course design

- Aid course design by generating course content, supporting assessment designs, and contributing to course improvement
- Offer recommendations to enhance curriculum development in higher education settings

#### Student engagement

- Act as an online advisor to answer student inquiries, provide guidance on course materials, and assist with academic support
- Provide career planning suggestions, enhancing access to information and resources, improving student engagement

#### Research

- Retrieve information from a vast array of research papers, books, and other academic sources
- Generate research background information and citations by identifying suitable and relevant resources

#### Operations

- Campus-wide 24/7 virtual assistant, responding to queries related to admission, student support, campus-specific information
- Centralize operational documents and provide guidance to staff members across departments

# Enabling AI transformation

Enhance learning and build foundational skills with AI-powered tools

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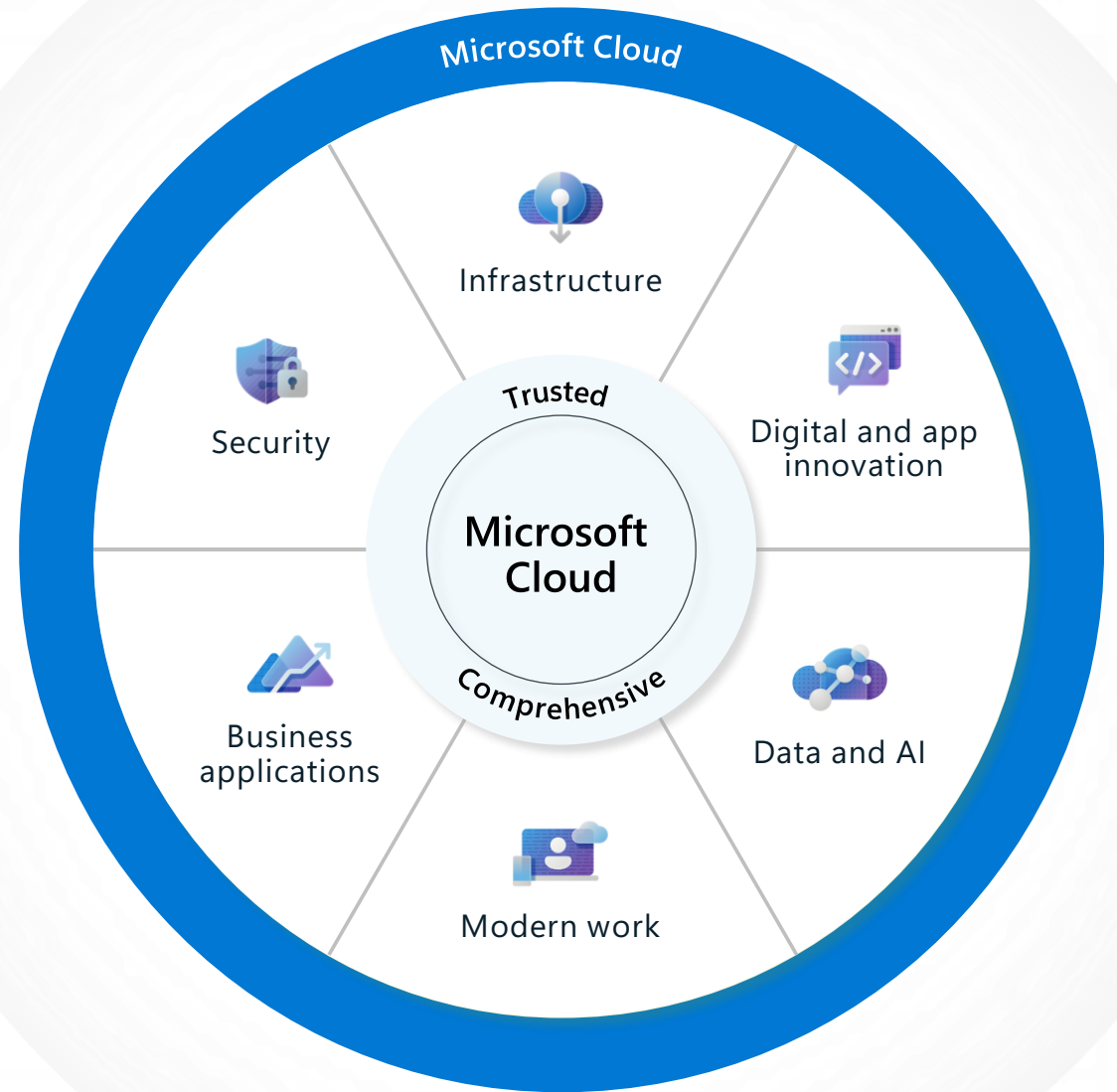
Boost productivity across your organization with Microsoft Copilot

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

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Co-innovate with trust and safeguard your organization





Data is the fuel that powers AI



# Enable AI **transformation** with the Microsoft Cloud

**Enhance  
learning**



**Boost  
productivity**



**Build your  
own copilots**



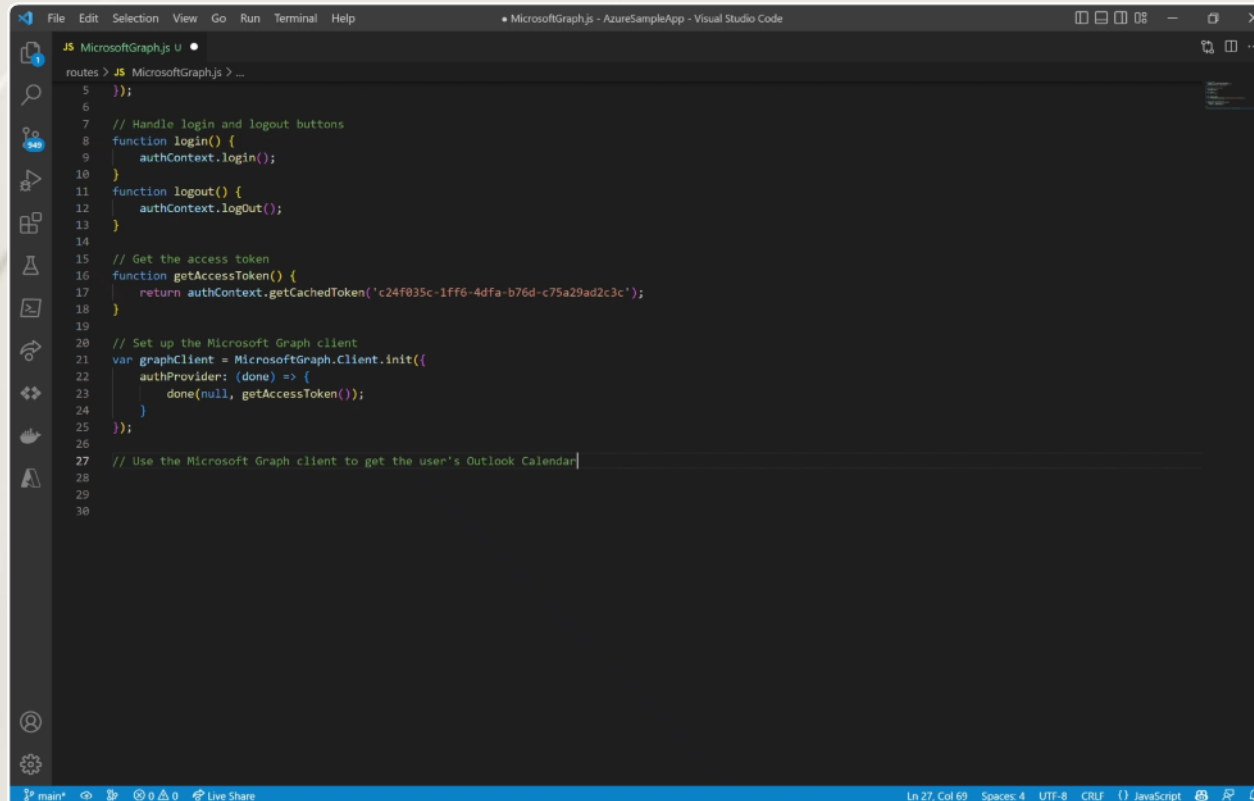
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**Co-innovate with trust and safeguard your organization**

# GitHub Copilot

“This is the single most **mind-blowing application of machine learning I’ve ever seen.**”

Mike Krieger, Co-founder, Instagram



```
File Edit Selection View Go Run Terminal Help
MicrosoftGraphjs - AzureSampleApp - Visual Studio Code

JS MicrosoftGraphjs U
routes > JS MicrosoftGraphjs > ...
5 });
6
7 // Handle login and logout buttons
8 function login() {
9   authContext.login();
10 }
11 function logout() {
12   authContext.logout();
13 }
14
15 // Get the access token
16 function getAccessToken() {
17   return authContext.getCachedToken('c24f035c-1ff6-4dfa-b76d-c75a29ad2c3c');
18 }
19
20 // Set up the Microsoft Graph client
21 var graphClient = MicrosoftGraph.Client.init({
22   authProvider: (done) => {
23     done(null, getAccessToken());
24   }
25 });
26
27 // Use the Microsoft Graph client to get the user's Outlook Calendar
28
29
30
```

main\* 0 0 0 Live Share Ln 27, Col 69 Spaces: 4 UTF-8 CRLF {} JavaScript

# GitHub Copilot in Action

CHAT: GITHUB COPILOT

suggestions, and share feedback so that we can learn and improve.

inspired-mona

Explain the selected code

GitHub Copilot

The selected code defines three regular expressions using the `re` module in Python.

- `e_regex` is a regular expression that matches a valid email address.
- `p_regex` is a regular expression that matches a valid phone number.
- `s_regex` is a regular expression that matches a strong password.

These regular expressions can be used to validate user input in a Python program.

Can you provide an example of how to use these regular expressions in a Python program?

```
src > utils.py
1 import re
2
3 e_regex = r'^[\\w\\.\\+\\-]+@[a-zA-Z0-9\\-]+\\. [a-zA-Z0-9\\-\\.]+$',
4 p_regex = r'^\\(\\+)?1?\\d{9,15}$'
5 s_regex = r'^(?=.*[a-z])(?=.*[A-Z])(?=.*\\d)(?=.*[@$!%*?&])[A-Za-z\\d@$!%*?&]{8,}$'
6
7 def checkvalid(text, regex):
8     if re.search(regex, text):
9         return True
10    else:
11        return False
12
13 # Add a main method to test all the regular expressions
14 if __name__ == '__main__':
15     print(("valid", "invalid")[checkvalid('test@microsoft.com', e_regex)]),
16     print(("valid", "invalid")[checkvalid('4255552368', p_regex)])
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS 1 Filter (e.g. text, author)

utils.py src

martinwoodward 2 weeks ago · Add comments to make code more readable [Ln 3-5]



# GitHub Copilot

46%

of **new code** is  
now written by  
AI

75%

of developers feel  
more focused on  
**satisfying** work

96%

of developers  
are **faster** with  
repetitive tasks

# Microsoft Copilot is **already** transforming work

**75%**

spent less time searching for information

**71%**

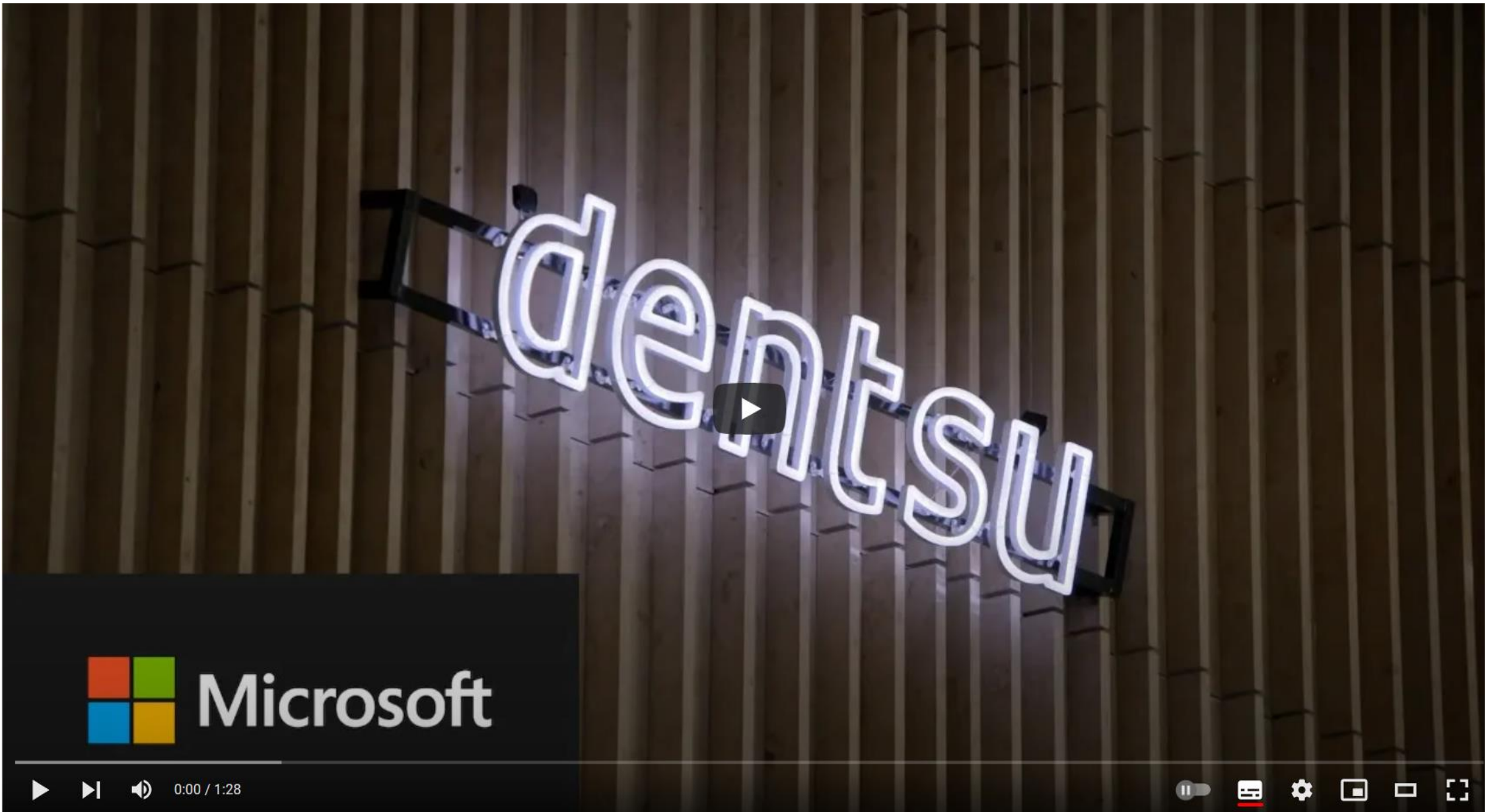
saved time on mundane tasks

**3.5x**

faster at catching up on missed meetings

**1.2**

hours saved on average per week



<https://www.youtube.com/watch?v=0d8CHH-KiDA>

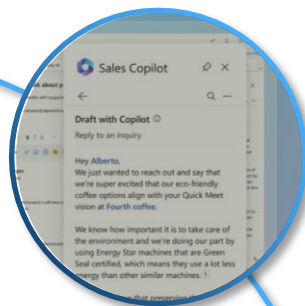


# Microsoft Copilot empowers everyone

*Resolve 14% more user issues per hour*



*Streamline the process of checking and answering emails*



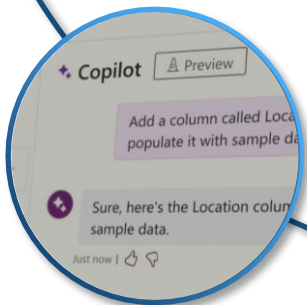
*Respond to threats in minutes, not hours*



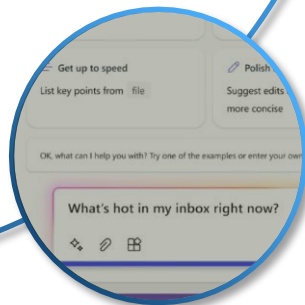
*Code 55% faster*



*Create workflows in half the time*



*Complete tasks 37% quicker*





# Microsoft Copilot

Your everyday **AI assistant**

Enterprise-grade security,  
privacy, compliance &  
responsible AI

You are always in control of  
the output

Your universe of data  
at work and the web



# Azure AI AI you can trust

Our **commercial data protection** applies equally to education as it would for any other industry.

We back use of our Bing Chat Enterprise and Copilot tools with a **commercial copyright commitment.**



Your Azure OpenAI Service instance is isolated from every other customer



Your data is not used to train the foundation AI models without permission



Your data is protected by the most comprehensive enterprise compliance and security controls

# Copilot Copyright Commitment

## Use Copilot services with confidence

We stand behind  
our Copilot  
customers

We are sensitive  
to the concerns  
of authors

Copyright  
guardrails are built  
into the product

# Build **your own** AI capability



**Customize**  
Microsoft Copilot

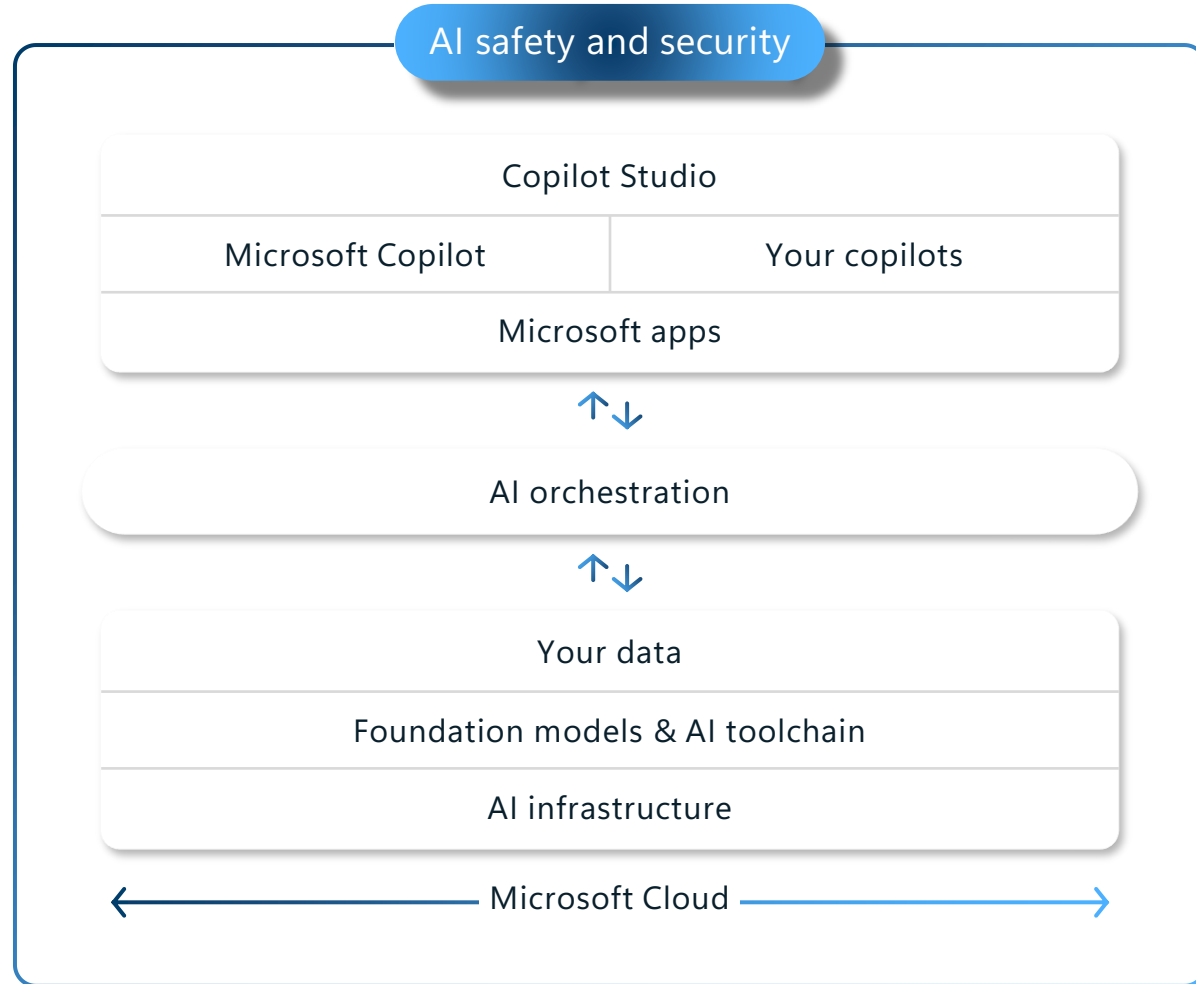


**Build your own**  
copilots



**Partner** with  
Microsoft partners

# Copilot stack

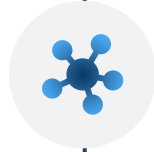


# Customize Microsoft Copilot

## Use cases



Control over conversational topics



Unique business needs and processes



Bring in your own data



Managing customizations

# Build your own copilots

## Top capabilities

Chat with your  
data

Intelligent  
analytics

Content  
generation

End user-facing  
copilots

# Microsoft's AI Principles



Fairness



Reliability  
& Safety



Privacy &  
Security



Inclusiveness

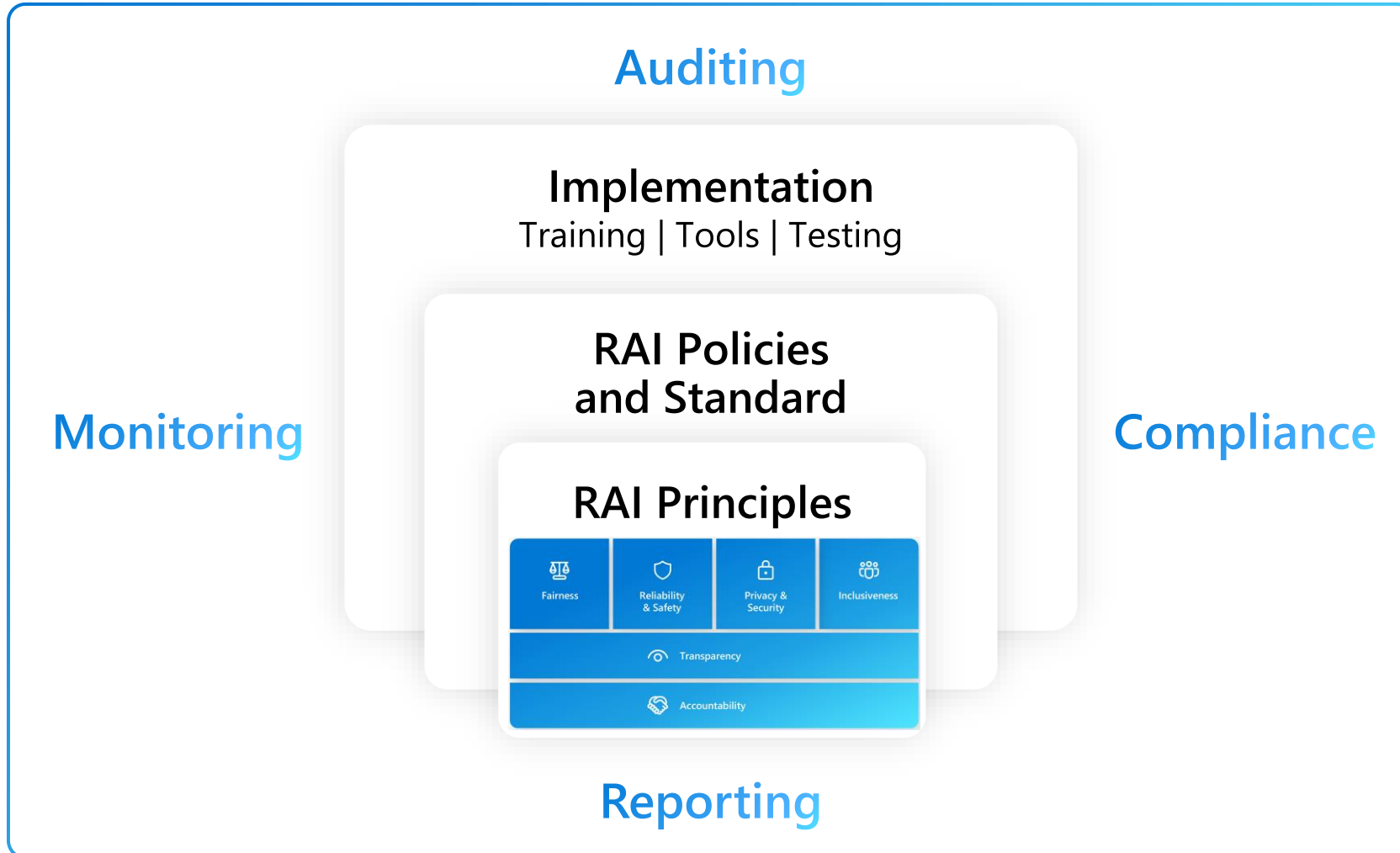


Transparency



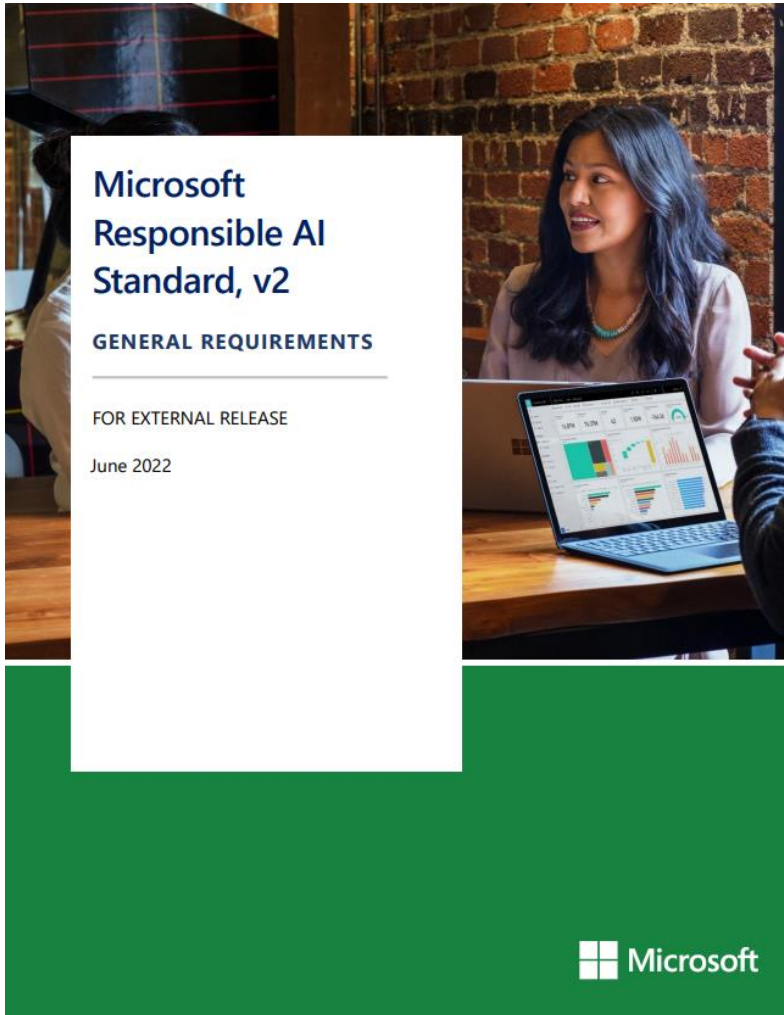
Accountability

# Responsible AI Governance Framework





# Microsoft's approach to Responsible AI



## Principles

Fairness  
Reliability & safety

Privacy & security  
Inclusiveness

Transparency  
Accountability

## Corporate Standard

Goals  
Requirements  
Practices

## Implementation

Processes  
Training  
Tools

## Oversight

Monitoring  
Reporting  
Auditing

# UX learnings at Microsoft

## Be transparent about AI's role and limitations

- ❑ Highlight potential inaccuracies in the AI-generated outputs
- ❑ Disclose AI's role in the interaction
- ❑ Prevent anthropomorphizing behavior

## Ensure humans stay in the loop

- ❑ Restrict automatic posting on social media
- ❑ Encourage human intervention
- ❑ Reinforce user accountability

## Mitigate misuse and overreliance on AI

- ❑ Cite references and information sources
- ❑ Limit the length of inputs and outputs, where appropriate
- ❑ Prepare pre-determined responses
- ❑ Detect and prevent bots built on top of your product.

# Academic dishonesty considerations

As with any new change in thinking in technology or advent of new tools, we'll need to have conversations about how to best adapt. This will take time and careful consideration as institutions develop updated policies to account for advances in AI. It will be critical to set clear expectations for students.

While detection tools can be helpful, they can also often be inaccurate as it relates to new technology. We do not advise relying on them or using them as the sole factor in decision making that impacts a student or their life opportunities. Human oversight should always be ensured for responsible usage.

# Student - Role Application

Launch Copilot via the App icon

The screenshot shows the RAF Recruitment website for the role of Engineer Officer. The page includes a navigation menu with options like 'LIFE IN THE RAF', 'CAREERS & BENEFITS', 'FIND YOUR ROLE', 'APPLY NOW', 'LIVE CHAT', and 'SEARCH'. A video player shows two RAF personnel in a workshop. Below the video, there is a 'Currently recruiting' section with tabs for 'Aircraft', 'Analysis & maths', and 'Travelling the world'. A salary comparison table is visible, showing 'PAY DURING INITIAL OFFICER TRAINING' at £31,000+ and 'PAY AFTER 3 YEARS SERVICE PROMOTION TO THE RANK OF FLT' at £47,000+.

Use prompt engineering techniques like adopting a persona and defining the output you want to guide how Copilot works

## Try it:

<https://recruitment.raf.mod.uk/roles/roles-finder/technical-and-engineering/engineer-officer-aerosystems>

**Prompt:** @this page, summarize the information

**Extended conversation:** You are a final year student at the university of Manchester studying mechanical engineering. You are on track to finish your degree with a 2.1 classification. In your final year you have worked with a local engineering firm to develop some specialist parts using direct metal laser sintering from titanium powder and this work has been nominated for an Institute of Mechanical Engineers student prize. You have also been playing water polo for the University team and have been active in the Engineering Volunteering and Outreach society as part of the Students' Union. Based on the job description, draft a letter of application.

**Further conversation:** After doing some research you realise that the role is primarily overseeing the team doing the aerospace system engineering. Write an additional paragraph that references your role as a teaching assistant in workshop practical sessions based on your skills in CAD mill and lathe operation.

# Interview Prep

The Co-operative Bank  
Ethical then, now and always

Login or register

## AML Investigator

← Back to job search

Location	Manchester
Discipline:	Retail Banking
Job type:	Permanent
Contact name:	Eloise Henderson
Contact email:	careers@co-operativebank.co.uk
Job ref:	026182
Published:	1 day ago

Apply Now

★ Save this job

Share job

✕ f in ✉

## Try it:

<https://www.co-operativebankjobs.co.uk/job/aml-investigator-4?source=co-operativebank.co.uk>

**Prompt:** @this page, you have been invited to interview for this role. You know that the interview panel will be the Head of the AML Team, a member of the HR department and a senior manager from the retail banking business. The interview is 45 minutes long. Based on the job description, what are the likely questions that will be asked?

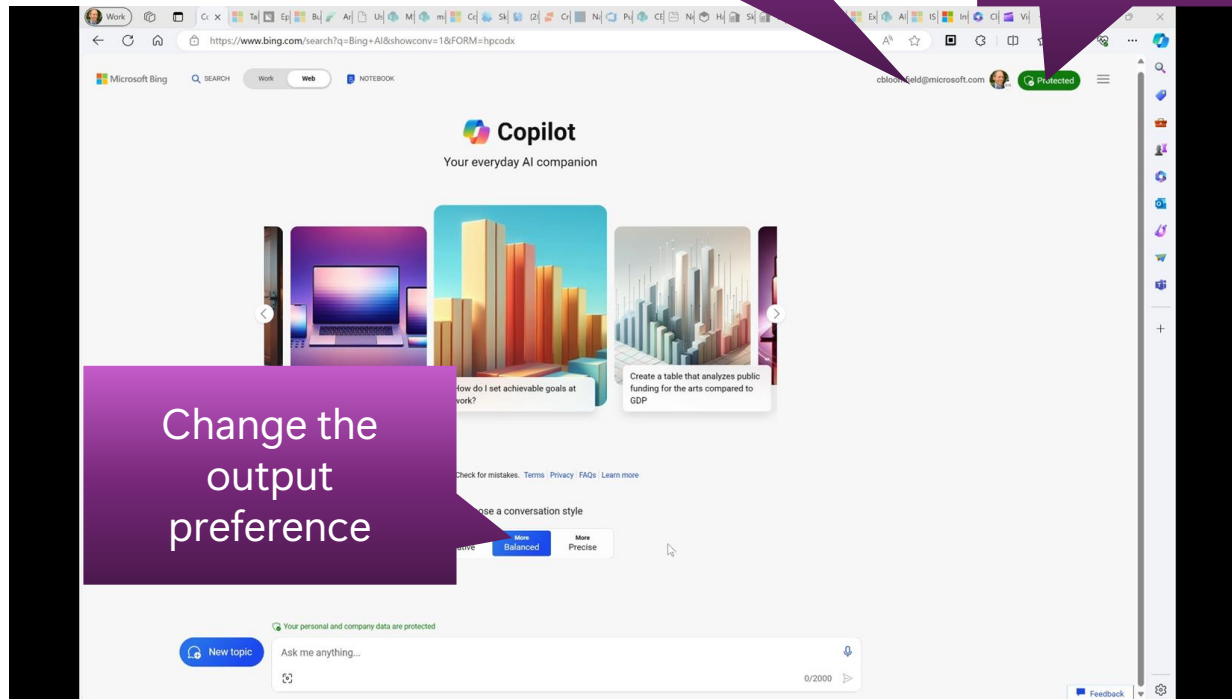
**Extended Conversation:** Based on this role in the banking industry, what other questions might be asked?

# Academic – Lesson Planning

Sign in with your institutional credentials

Commercial Data protection indicator

Change the output preference



## Try it:

**Prompt:** You are a new lecturer in computer science at The University of Edinburgh. You would like to introduce GitHub Copilot to your students based on recent collaboration with a commercial research partner. Based on the University's published curriculum for the course, identify when would be the best fit in the 3 year programme. Next, generate some inspiration for a lecture on use of GitHub Copilot as a way of demonstrating how coding can be supplemented by AI. Produce a lecture plan for a 45 minute class including details of how students can access GitHub Copilot to support their work – this should be a bulleted list with approximate timings. After completing the lesson plan, summarize the learning outcomes. Finally, provide some suggested further reading.

**Extended conversation:** Can you find any academic papers that have evaluated the impact of GitHub Copilot?

**Further conversation:** Can you produce an inspiring image for GitHub Copilot?

# Personalizing learning with **AI-powered** technology



<https://www.youtube.com/watch?v=LloFa72h0AQ>

# Empowering educators with **AI-powered** technology



<https://www.youtube.com/watch?v=ZRH1cgNGmIM>



# Copilot for Microsoft 365 is transforming work

60%

of leaders say a lack of innovation or breakthrough ideas is a concern

64%

of people have struggled with finding time and energy to get their work done

70%

of people indicated they would delegate as much as possible to AI to lessen their workloads



68%

said Copilot improved the quality of their work

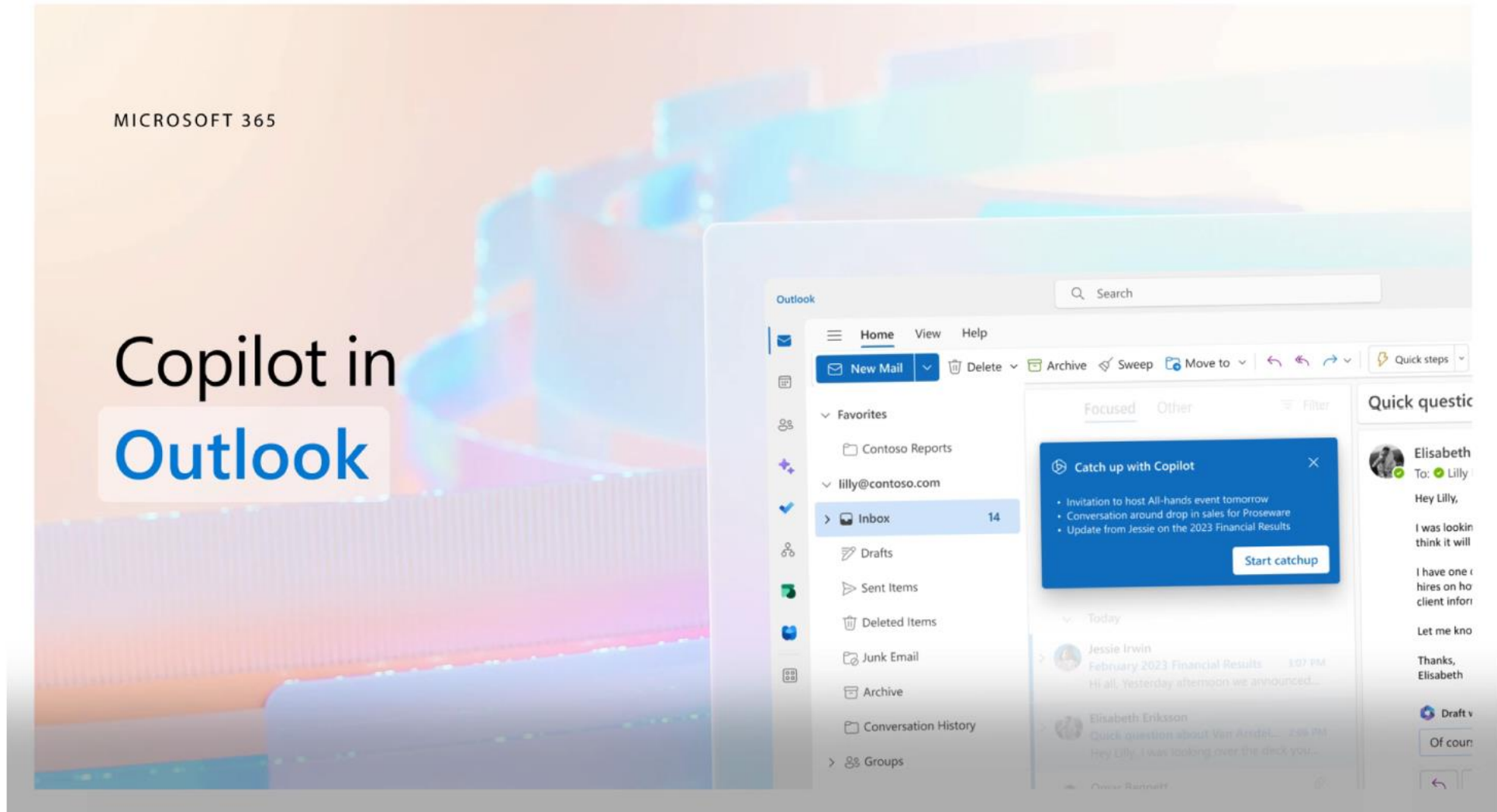
70%

said Copilot made them more productive

77%

said they didn't want to give Copilot up

# Microsoft 365 Copilot in Outlook

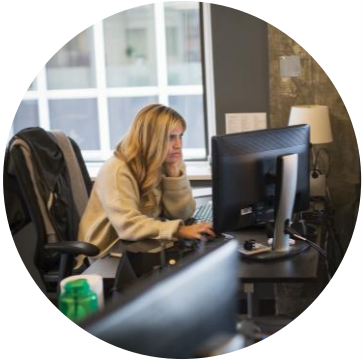


<https://www.youtube.com/watch?v=ul5mQjTp1fl>

# Many opportunities to improve efficiency

Key trends as educational institutions prepare for the next era of education

Create agile,  
resilient  
infrastructure



Mitigate  
cyber risk



Leverage data  
for student  
success



Focus on the  
mission, not  
the mundane



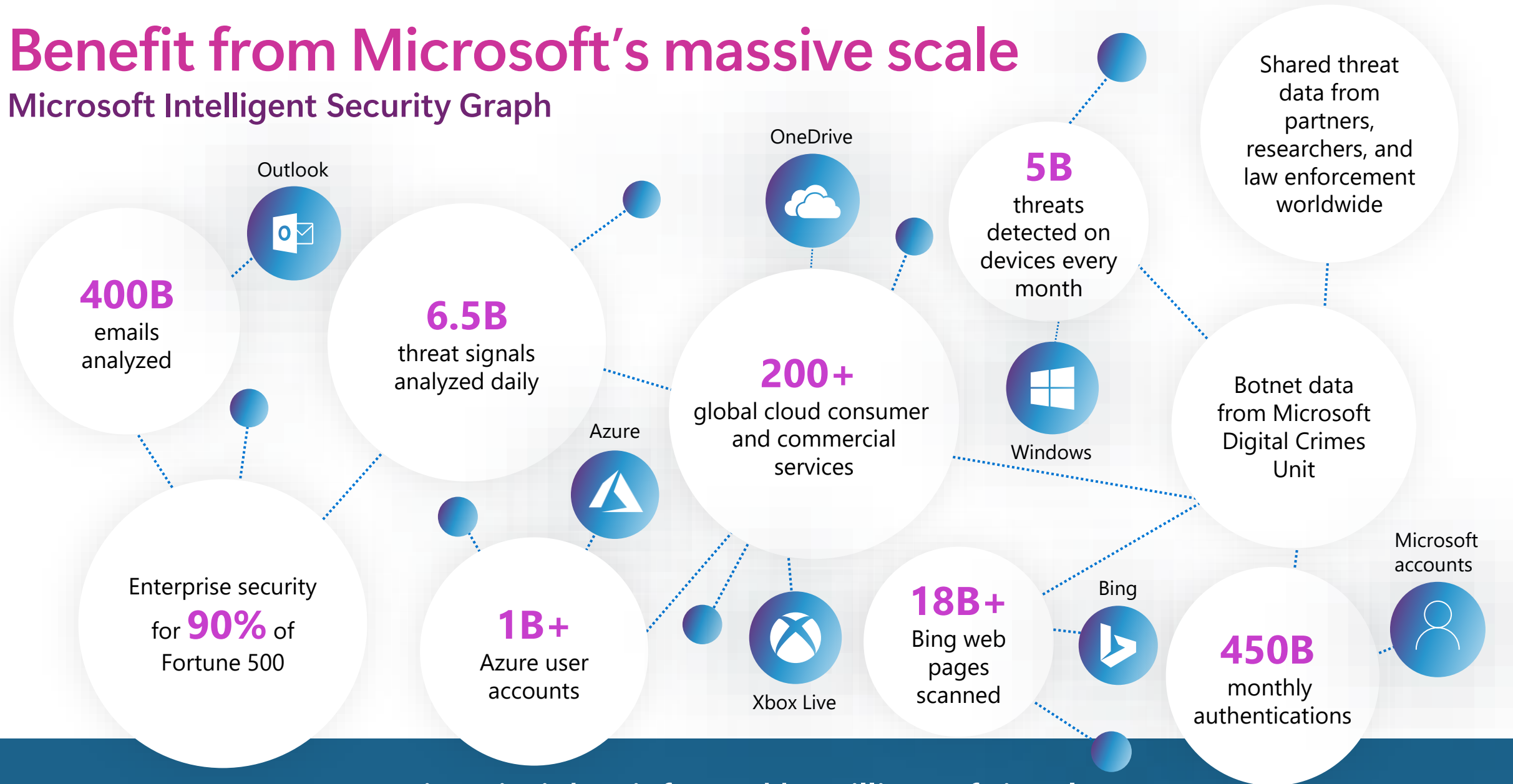
Harness power  
of AI &  
ChatGPT



Opportunity for continued IT upskilling and career growth

# Benefit from Microsoft's massive scale

## Microsoft Intelligent Security Graph



Unique insights, informed by trillions of signals

# Innovate at speed and scale



## Challenge

■ Institutions are looking to harness the power of AI, but newer technical advances such as ChatGPT pose opportunities as well as risks

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## Solution

■ Transform processes and tasks with Azure Open AI

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## Benefits

- • Drive fundamental research and operational breakthroughs
- • Responsible use of AI
- • Your data is not used to train the OpenAI foundational models without your permission

# Yale School of Medicine



## Challenge

■ The Tietjen Lab at the Yale School of Medicine needed faster research processes and infrastructure to make the most of every organ donated.

## Solution

■ The lab relies on Azure Functions to automate initial processes through event-driven serverless code. This allows for automatic processing of tissue data in a seamless and reliable fashion.

## Benefits

■ With newfound efficiency, the lab can collaborate and make life saving decisions in real time, improving the viability of kidneys used in transplants and reducing organ waste.



We need partners that can help us build the infrastructure to go really fast so we can fully honor every donor organ. The partnership with Microsoft and Terawe has revolutionized our approach and our thinking."

– Dr. Greg Tietjen  
Assistant Professor and Principal Investigator

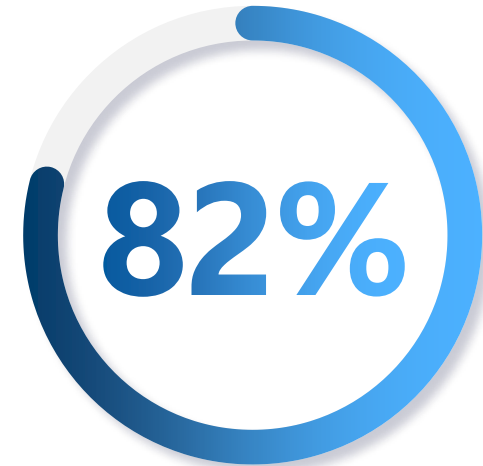
# AI can transform education



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 AI



# Future Ready Skills



# How you can get started **today**

**Grow AI literacy and skills  
across your organization**

**Try Microsoft's AI solutions  
in action**

**Ensure an AI-ready  
data foundation**

**Build your own  
AI-powered copilot**

# Learnings

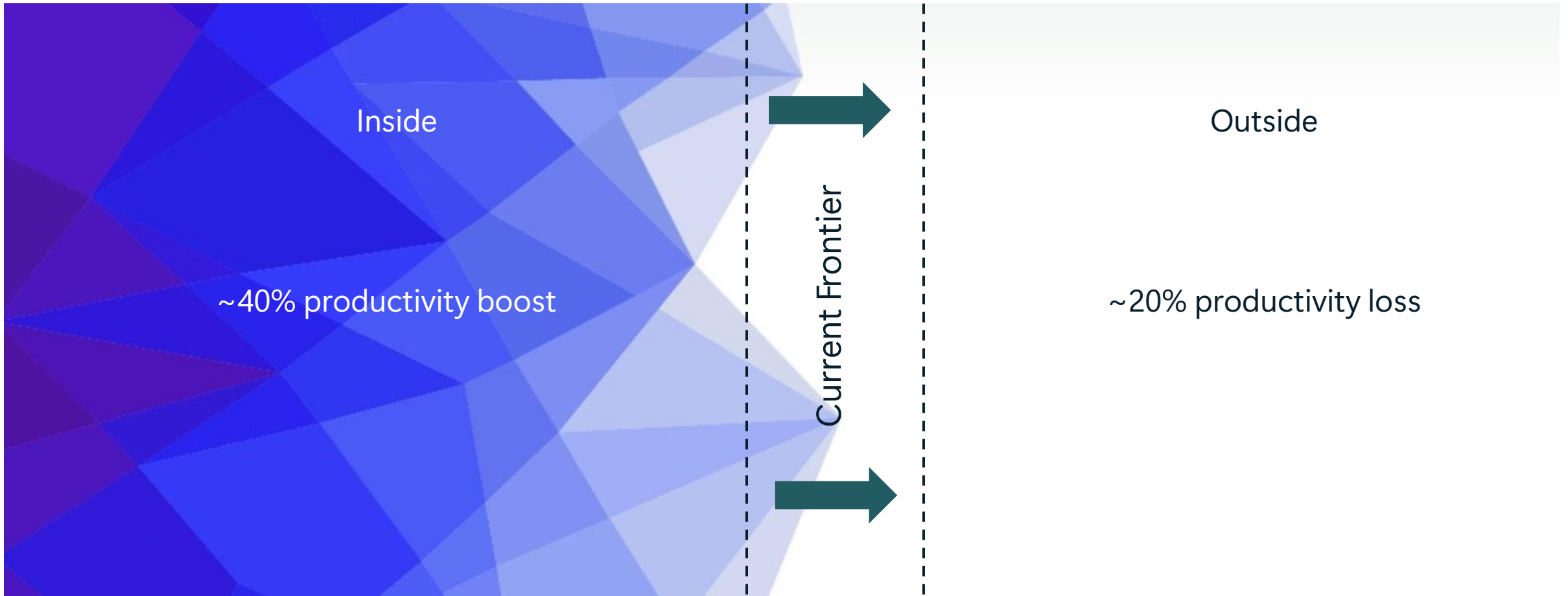
- Meaning in the name
  - Copilot, not autopilot.
  - Use the Enterprise environment.
- Rather than a PA, think about it as an intern
  - Highly capable, learns fast but needs pointing in the right direction and clear instruction.
  - Iterate if your first request doesn't give the output you needed.
- Work evolved to validation
  - Sign off on the outputs before releasing them under your name.
  - Check sources.
  - Your skilled workers need to continue to validate AI using their expert judgement.



# Jagged Technological Frontier



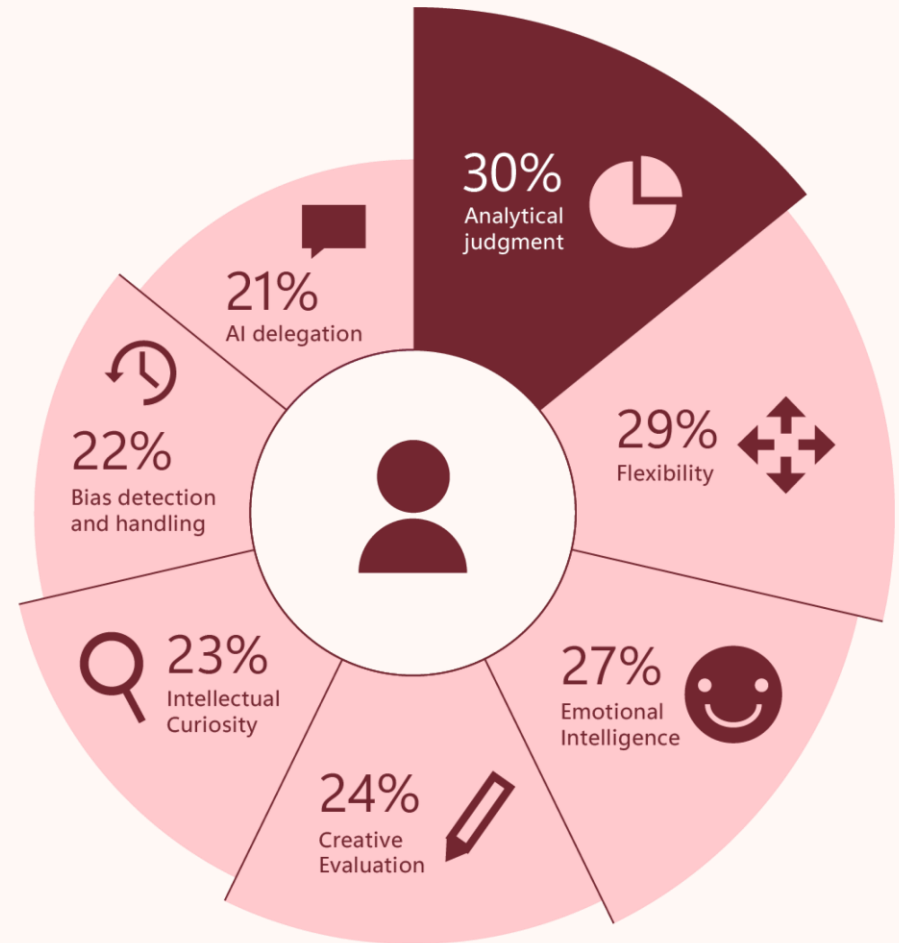
Dell'Acqua et al. (2023) Field  
Experimental Evidence of the Effects  
of AI on Knowledge Worker  
Productivity and Quality



# Prepare for the future

**82%** of business leaders say employees will need new skills to prepare for AI.

Learning to work alongside AI is not just about building technical capacity. It will be necessary to prioritize people skills, and new analytical, emotional, and critical thinking skills.



Source: Microsoft Work Trend Index: Annual Report (May 9, 2023)  
Survey question: Some believe that it is likely that artificial intelligence (AI) will usher in a new era of technological advancements. Which of the following skills do you think will be most essential for your employees to learn to evolve with these potential changes?

# A Student Guide to Generative AI

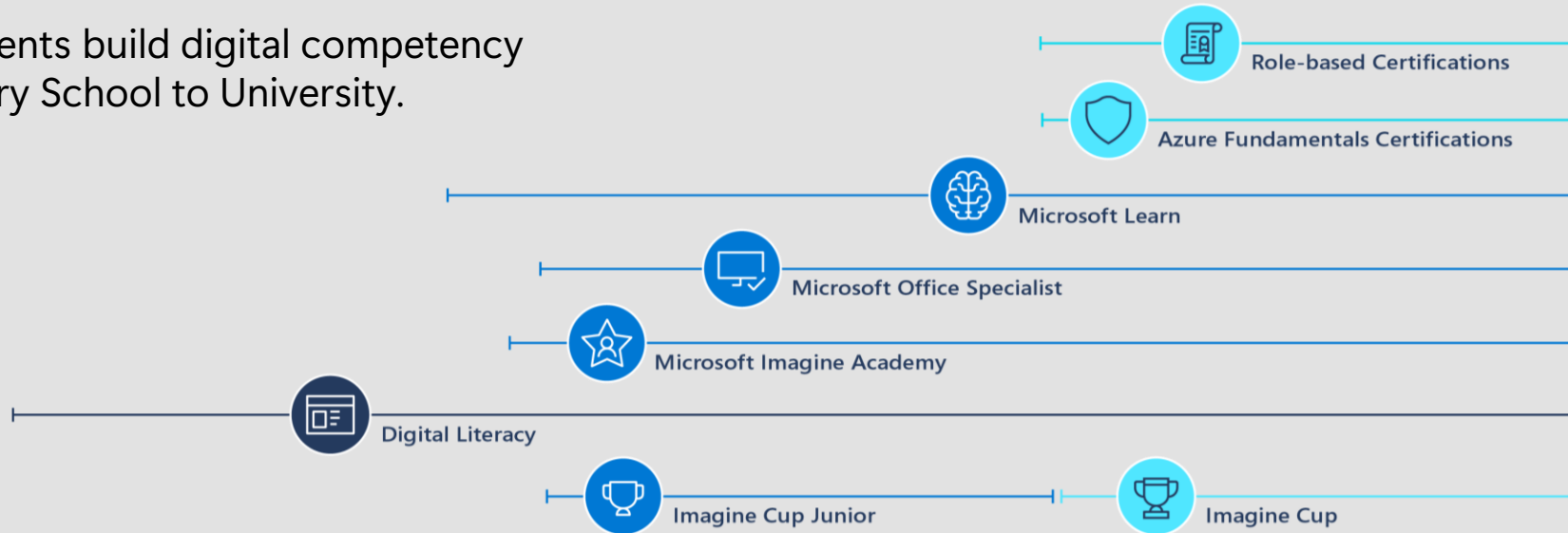
"There...are ways to use generative AI effectively and appropriately. This is a skill that universities have recognised they should be imbuing in their graduates. That is the focus of this course."

Dr Malcolm Murray  
DCAD, Durham University



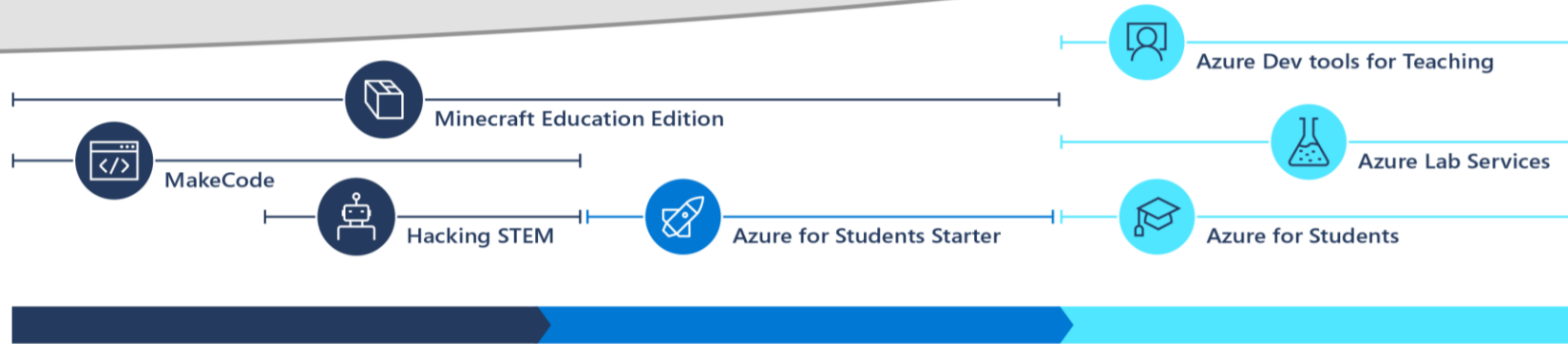
# Microsoft digital skilling programs

Helping students build digital competency  
– from Primary School to University.



## Digital Skills

## Coding & Computer Science



### Primary

Spark curiosity with STEM, computer science and give purpose to learning

### Secondary

Build productivity skills and grow competence in new technologies

### Tertiary

Drive employability with role-based and technical skilling

# [aka.ms/AlforEducators](https://aka.ms/AlforEducators)

New, free Microsoft Learn course

Less than one hour

Aligned to ISTE and UNESCO Standards for Education



# AI Trainings and Resources

For students	For educators	Adoption materials	Microsoft AI fundamentals	Learn more
<a href="#">AI Foundations</a>	<a href="#">Empower educators to explore the potential of artificial intelligence</a>	<a href="#">Microsoft Copilot</a>	<a href="#">Introduction to generative AI</a>	<a href="#">Expanding Microsoft Copilot access in education</a>
<a href="#">Minecraft Hour of Code: Generation AI</a>	<a href="#">Enhance teaching and learning with Microsoft Copilot</a>	<a href="#">Copilot for Microsoft 365</a>	<a href="#">Introduction to the Azure OpenAI Service</a>	<a href="#">Microsoft's approach to AI</a>
<a href="#">Intro to AI with Minecraft</a>	<a href="#">AI Classroom Toolkit</a>	<a href="#">Explore generative AI with Copilot</a>	<a href="#">Responsible Generative AI</a>	<a href="#">Responsible AI</a>
<a href="#">AI for Earth – Minecraft lessons</a>	<a href="#">Facilitate the Hour of Code: Generation AI</a>	<a href="#">Copilot Prompting Toolkit</a>	<a href="#">Azure AI Fundamentals</a>	<a href="#">Copilot Lab</a>
<a href="#">AI for Good Hour of Code - Minecraft</a>	<a href="#">Prepare to teach Azure AI Fundamentals</a>	<a href="#">AI Builder Prompt engineering guide</a>	<a href="#">Identifying principles and practices for responsible AI</a>	<a href="#">TeachAI Toolkit</a>



A man with dark hair, wearing a blue and white plaid shirt over a dark long-sleeved shirt, is looking down at a tablet computer he is holding with both hands. He is in a workshop or industrial setting, with blurred machinery and equipment in the background. The lighting is warm and focused on him.

 Microsoft  Learning

Earn your  
Career Essentials  
Certificate  
in Generative AI



# Thank you

Further information:

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Microsoft Industry Solutions

[cbloomfield@microsoft.com](mailto:cbloomfield@microsoft.com)

**Prompt:**

In the style of Frank E Jamieson create an image of a sunset over the river Thames in London

