

Transforming Learning and Teaching with AI

Empowering Educators Effectiveness and Productivity

Dr Vinnie Jauhari

Microsoft Elevate



AI's Impact on India's GDP Growth

- AI is projected to boost India's GDP by up to 15% by 2030.
- Increased productivity across sectors through automation and optimization.
- Significant job creation in AI-related fields and technology sectors.
- AI can help reduce operational costs for businesses, fostering growth.

Transformative Potential of AI

1. Empowerment of Citizens: AI can empower citizens by providing language capabilities and access to digital, dignified work.

Karya, a non-profit organization-an example of how AI is bringing digital work to rural India

2. AI for Farmers: AI has the potential to solve problems that matter to communities, including farmers.

3. Healthcare and Fintech applications

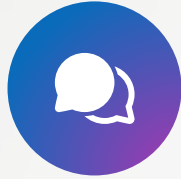
3. Education and AI: AI can significantly benefit education professionals by providing personalized and, coaching, encouraging exploration and curiosity among students.



Becoming Frontier | K-12 Education



Enrich student
experiences



Reinvent school
engagement



Reshape education
processes



Bend the curve
on innovation

Becoming Frontier | K-12 Education

Enrich student experiences

By providing personalized learning and preparing students for the future



 **Sikshana**
FOUNDATION
Love of Learning
A Unit of Sivasri Charitable Trust

Reinvent school engagement

By empowering educators and enhancing instruction



 **Brisbane**
Catholic
Education
teaching · challenging · transforming

Reshape education processes

Through improved efficiency and advanced cybersecurity



 **ZÁKLADNÍ**
ŠKOLA AŠ
HLÁVKOVA

Bend the curve on innovation

With unified institutional insights to improve educational outcomes



 **SCHOOL**
DISTRICT
43
Coquitlam
Learning for a Lifetime

AI Use Case

Enhance instruction and empowering educators

[Read full story here](#)



“I was thrilled to have the opportunity to use Shiksha copilot,” Parimala said. “It could be very useful for new teachers just learning their profession. I think it could revolutionize the way teachers teach.”

– Parimala H.V.

Teacher, Government Higher Primary School, Santhee Beedhi

Outcomes



Accelerated lesson planning:

Enabled teachers to generate personalized, age-appropriate lesson plans in under two minutes using AI-powered tools.



Empowered instructional design:

Helped educators create engaging assignments, hands-on activities, and assessments tailored to student needs.



Reduced planning workload:

Gave teachers back hours of time each week by automating routine content creation and resource curation.

Shiksha Video



Demonstration of AI for Teachers

Enhancing productivity and effectiveness for Teachers leveraging Copilot applications

Copilot Applications

- Creating lesson plans with effective prompts
- Defining the data sets/references
- Pedagogical innovations
- Assessments that build critical thinking
- Enabling dissemination of practical insights from field
- Conversion in local languages
- Digital agents –personal tutor for students



DEMOS

Copilot – Creating Lesson Plans, Rubrics, Assessments- Teachers
Curating content

Agentifying or creating Digital twins for mentoring and coaching on
range of areas

M 365 Copilot- Powerpoint, Excel, Word, Teams

GITHub Copilot & Security Copilot

Curating a Lesson Plan

Microsoft Teams

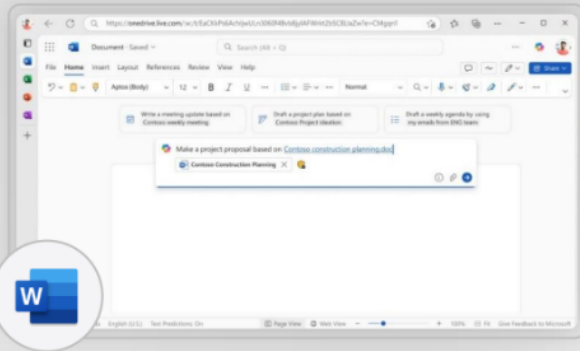
Demos for AI Applications NCERT

2025-11-18 10:35 UTC

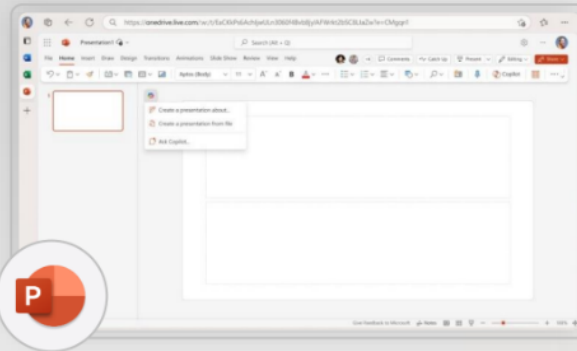
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Vinnie Jauhari

Organized by
Vinnie Jauhari

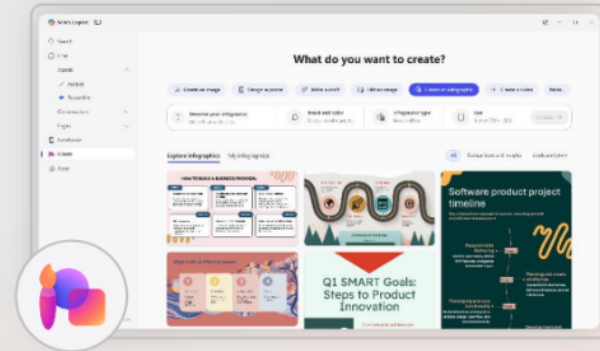
Amplify creativity and bring your vision to life faster



Brainstorm ideas and get writing suggestions with **Copilot in Word**



Transform a document into a presentation in seconds with **Copilot in PowerPoint**



Generate and refine visuals like images, posters, videos, and more with **Create**

Creating a Presentation leveraging Copilot

- Share a prompt with copilot
- Share the instructions on the scope, time, level and subject
- Share specific aspects that you want to get included
- You can add more instructions to evolve the deck
- You can convert into local languages
- You can add teaching notes
- You can modify images as well.

Creating a presentation on a theme

Microsoft Teams

Demos for AI Applications NCERT

2025-11-18 10:39 UTC

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Vinnie Jauhari

Organized by

Vinnie Jauhari

Developing Agents to provide student support

- Career counselling
- Subject related support beyond what is taught in the classroom
- Nurturing curiosity in the subject
- Practicing for the exams
- Personalising the learning experience in ones own language
- Addressing accessibility issues
- Sharpening the research orientation and approach for learning

Provide tailored experiences so you can make Copilot your own



Create your own agents



Leverage agents built by Microsoft



Manage all your agents from a single console

Create your own agents

Use natural language to easily build and configure your own agents with Copilot Studio

M365 Copilot

Search

Chat

Agents

Explore agents

Create agent

Conversations

Pages

Create

Apps

Copilot Studio My agents > Biology 101 Agent

Describe Configure

Career Coach Microsoft
Career Coach offers personalized career advice...

Customer Insights Assistant Microsoft
An agent designed to help the team get to know...

Idea Coach Microsoft
Idea Coach enhances brainstorming with fun and...

View all templates

Create an agent to answer student questions about biology class using information from the syllabus and course material

Your agent is now set up to answer student questions about biology class, using the syllabus and course material as its sources. It will provide clear, accurate, and supportive responses focused on class topics, assignments, grading, labs, and instructor contact.

Next, let's choose a name for your agent. I suggest "Biology Class Helper." Would you like to use this name, or do you have another name in mind?

Type your message
0/2000

Adele Vance

AI-generated content may be incorrect | Copilot Studio capabilities in M365 are processed by the Copilot Studio service. By using this experience, you agree to these Terms | Privacy and cookies

Draft auto-saved Create

New chat

Biology 101 Agent
Answers student questions about biology class using the syllabus and course material.

Ask about class topics
What topics will be covered in the biology class?

Exam schedule
When are the exams for this biology course?

Assignment details
What are the requirements for the next biology assignment?

Grading policy
How is the biology class graded?

Lab information
What do I need to bring to biology lab sessions?

Contacting the instructor
How can I contact the biology instructor?

Type your message

Working with Digital Agents as Support /Mentors for Students

Microsoft Teams

Recording on Teams for NCERT

2025-11-18 07:41 UTC

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Microsoft 365 Copilot

Natural Language



Large Language
Models

+



Microsoft Graph
- Your Data -

+



Microsoft 365
Apps

+



The
Web

Introducing Learning Accelerators



Foundational Skills



Future-Ready Skills



Insights



Reading

Math

Well-being

Speaker

Search

Insights

Progress &
Reading Coach

Progress &
Math Coach

Microsoft Reflect

Progress &
Speaker Coach

Progress &
Search Coach

Education
Insights



Speaker Coach

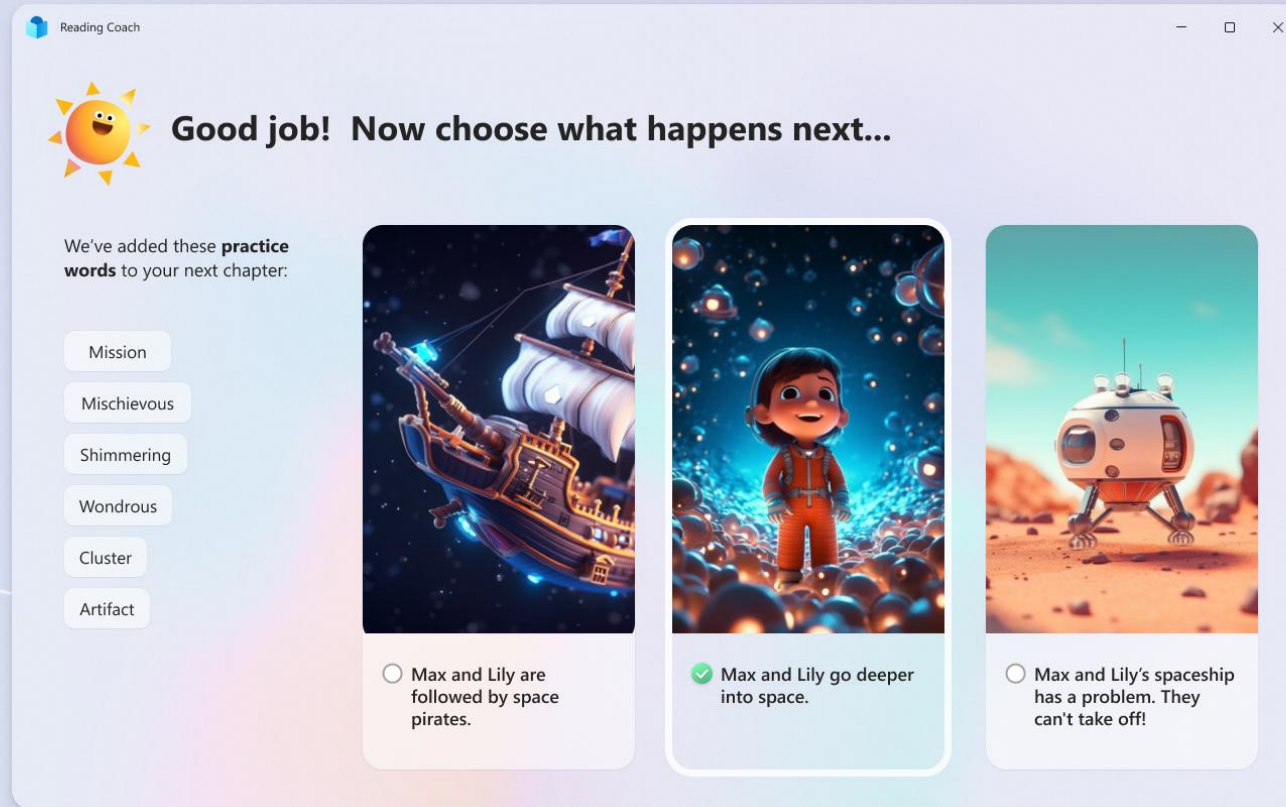
Go to Slide show and click rehearse with coach and then end the recording to get insights on your communication and rehearsal

You can rehearse with coach and it will give you insights on

- Words per minute
- Pauses
- Speed
- Confidence level
- Variation of pitch among other areas

Reading Coach

AI-powered personalized practice at school and home by assigning paragraphs for reading
Available in over 100 languages- English, Hindi are available for auto detect while as **at least 12 major Indian languages** are supported for reading passages and manual review



Reading Coach

☀️ **Good job! Now choose what happens next...**

We've added these **practice words** to your next chapter:

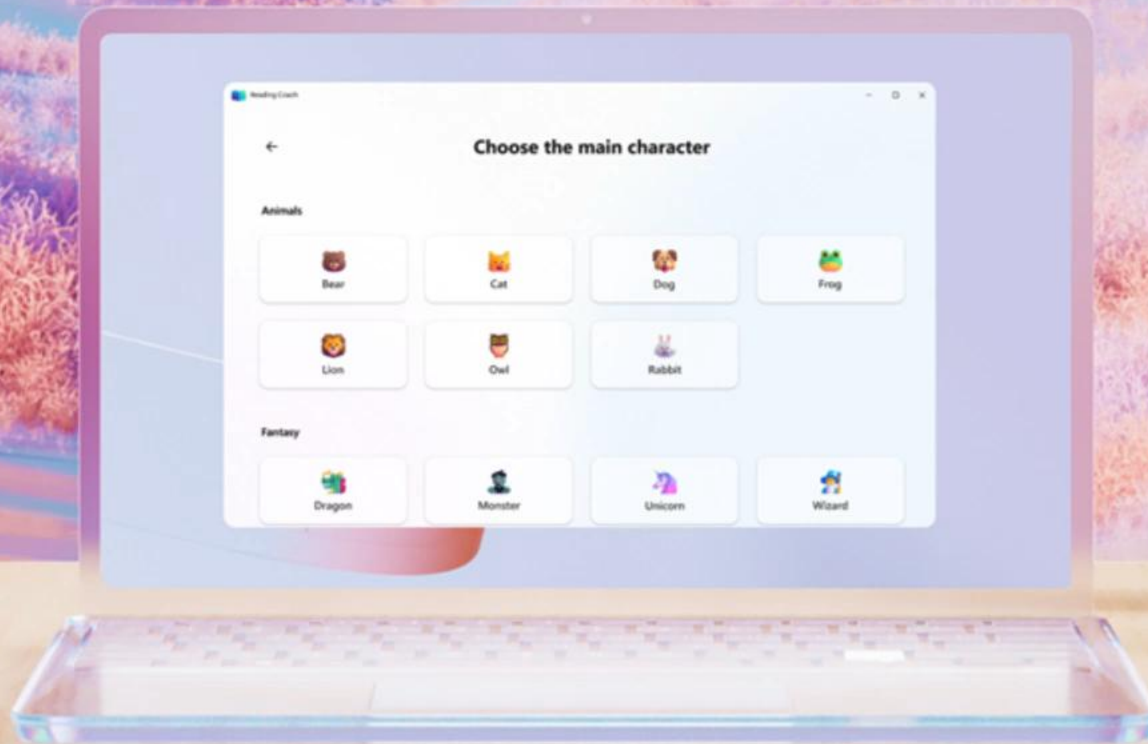
- Mission
- Mischievous
- Shimmering
- Wondrous
- Cluster
- Artifact

Max and Lily are followed by space pirates.

Max and Lily go deeper into space.

Max and Lily's spaceship has a problem. They can't take off!

VIDEO READING COACH



Get started at coach.microsoft.com
Available for home use on Windows or Web



Enabling efficiencies in content assimilation

- Share a report or a document with Copilot
- Request it to summarise the document
- You can ask various questions and engage on various aspects of the theme
- You can nurture curiosity to look beyond the document
- Create assessments of various kinds and enable engagement across themes
- Convert it into audio or text in various languages

Best Practices for Leveraging Analytics

1. Review analytics weekly to track trends.
2. Use Insights to set goals for student participation.
3. Share engagement data with students to encourage accountability.
4. Combine analytics with qualitative feedback for a holistic view.

[5 things to know about Microsoft Education Insights](#)

Getting insights into analytics

<https://www.youtube.com/watch?v=U0Blzx3FbXs>

Step 1: Accessing Analytics in Teams

- Navigate to your Team in Microsoft Teams, click on the 'More options' (three dots) next to the team name, and select 'Manage team'. Then click on the 'Analytics' tab to view activity data.

Step 2: Viewing Team Activity Metrics

- In the Analytics tab, you can view metrics such as number of posts, replies, reactions, and active users.
- This helps you understand how engaged your students are in discussions.

Step 3: Using Insights for Student Engagement

- Click on the 'Insights' app in Teams to access detailed reports on assignments, attendance, and grades.
- Insights provide a clear picture of student progress and areas needing attention.

Step 4: Interpreting Data for Decision-Making

- Use the data from Analytics and Insights to identify patterns, such as students who are less active or missing assignments.
- Plan interventions like personalized feedback or group activities to boost engagement.

Convert handwritten text/paragraph to tables

The turnover of the ABC organisation is INR 500 cr with 2000 employees. The offices are located in New Delhi Aurangabad, Patna and Chennai. At each location the number of employees are 100, 400, 300 and 700 respectively. The new profit for the year 2025 was 50 cr and the investment in R&D was 25 crores. The CSR investments were 2 crores largely in the realm of education. The Company manufactures paper and uses conventional energy sources. There has been a challenge in recruitment of talent.



Snapshot of output from Copilot

Can you create the text on this slide into a table

 Copilot 

You asked to convert the text from slide 25 of your "Demos for Teachers" presentation into a table, specifically excluding any mention of blurred faces. Here is the information from the slide, structured as a clear and professional table for easy reference:

Company Overview Table

Attribute	Details
Turnover	INR 500 crore
Total Employees	2,000
Office Locations	New Delhi, Aurangabad Patna, Chennai
Employees per Location	New Delhi: 100 Aurangabad: 400 Patna: 300 Chennai: 700
Net Profit (2025)	INR 50 crore
R&D Investment	INR 25 crore
CSR Investment	INR 2 crore (mainly in

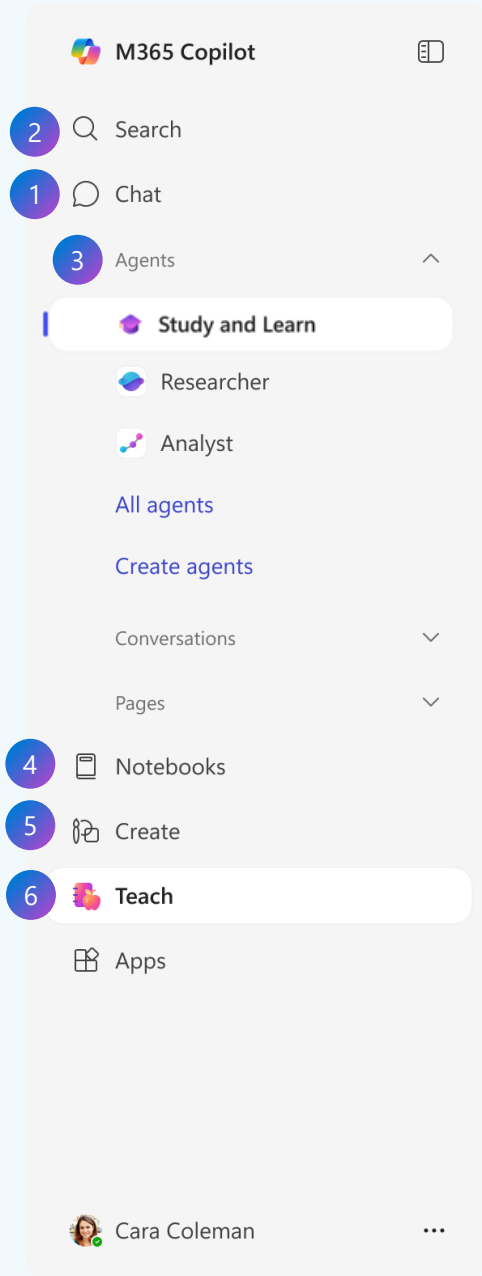
Microsoft- Responsible AI Principles

1. **Fairness**- Ensure AI systems treat all students equitably eliminating biases
2. **Reliability and Safety**- Deploy AI tools that are robust , accurate and consistently safe for classroom usage
3. **Privacy and Security**- Protect student data and uphold strict privacy standards
4. **Inclusiveness**- Design AI to Empower every learner supporting diverse needs
5. **Transparency**- Making AI decisions understandable for educators and students and fostering trust
6. **Accountability**- Maintain human insight and clear responsibility for AI impacts in teaching and learning

Practical Guidance for Educators

- Integrate responsible AI principles into lesson planning, assessments, and classroom activities.
- Regularly review AI-generated content for accuracy, fairness, and appropriateness before sharing with students.
- Update school policies to reflect responsible AI use, ensuring community standards and legal compliance.
- Encourage critical thinking about AI's role, limitations, and ethical considerations among students.
- Leverage Microsoft's educator training modules and toolkits for hands-on learning and best practices.

Microsoft 365 Copilot: **AI solution for education**



1

Chat

Secure AI chat powered by the latest models available and grounded in web and institutional data.

2

Search

AI-powered search that spans all your institutional data for fast and relevant results.

3

Agents

A broad ecosystem of pre-built agents available in the Agent Store and build your own agents in Copilot Studio.

4

Notebooks

Bring together your chats, files, and materials then build on it and create something new from it like a podcast.

5

Create

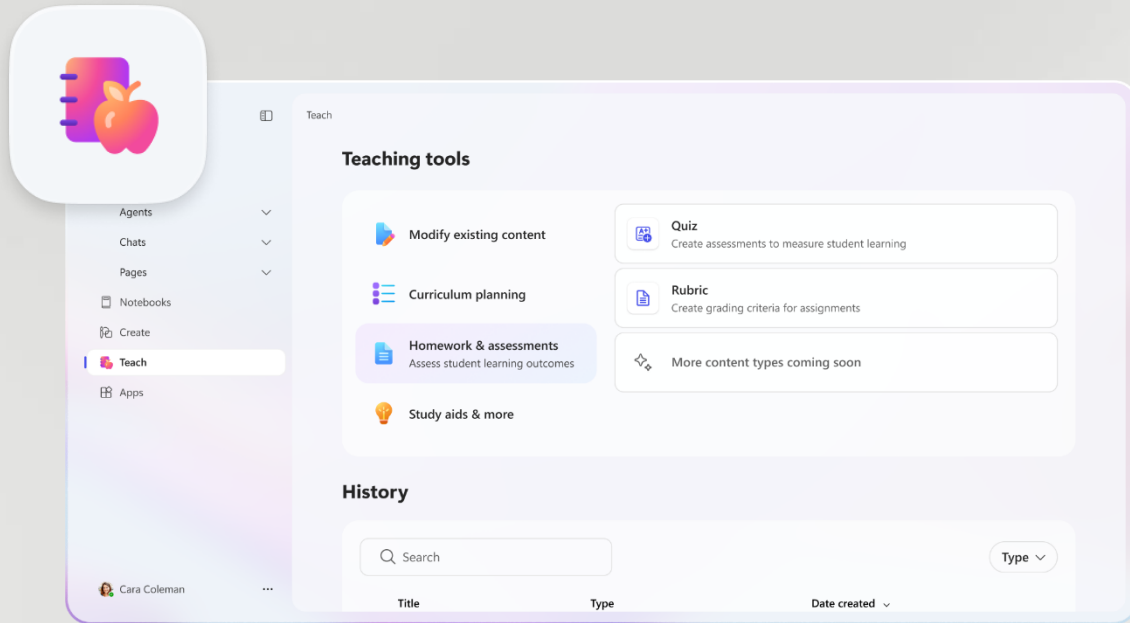
AI-generated images, posters, banners, videos, and more that are aligned to your institution's brand identity.

6

Teach & Study and Learn

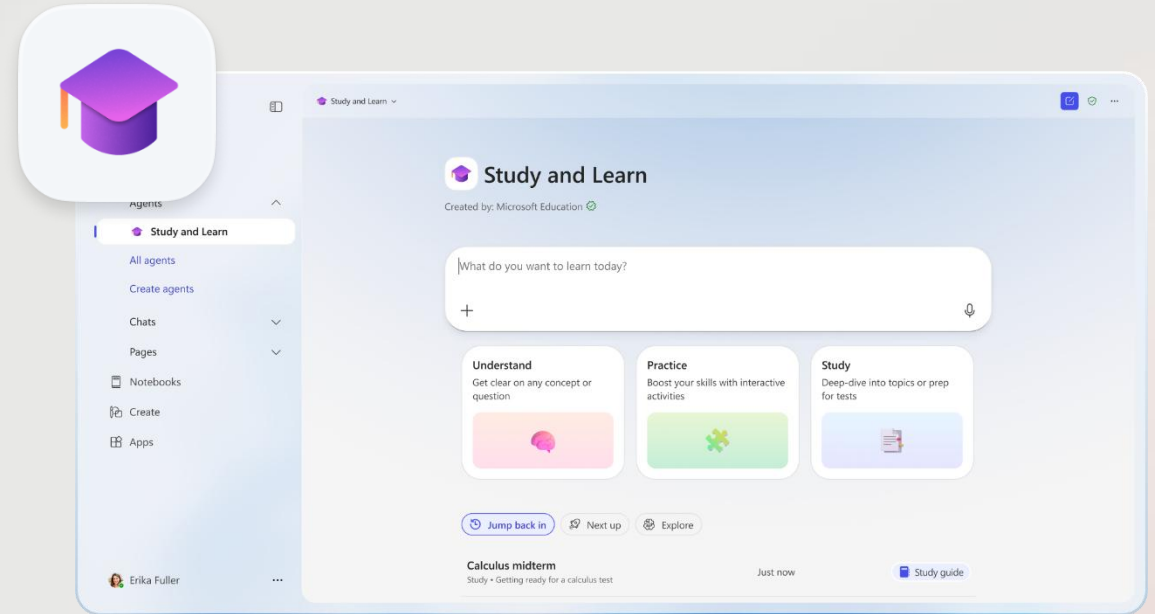
AI-powered teaching and learning experiences available at no additional cost in the Microsoft 365 Copilot app.

Enhance teaching and learning with AI



Teach

Easily access teaching tools to create lesson plans, draft materials like quizzes and rubrics, quickly make modifications like language, levels, length, difficulty, alignment to standards, and more.



Study and Learn

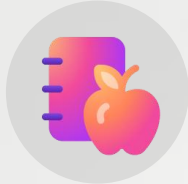

An advanced agent that offers students an adaptive and inclusive experience for personalized learning. Helps foster critical and reflective thinking with engaging, built-in activities.








Microsoft 365 Copilot

Your AI assistant for education

For education

- 
Teach
- 
Study and Learn

For all

- 
Chat
- 
Search
- 
Agents
- 
Notebooks
- 
Create

← Copilot Control System →



Outlook

Draft emails, navigate long threads, and schedule your day



Loop

Brainstorm, plan, and create together live



Teams

Understand, recap, and answer questions about meetings



Forms

Create learning activities from scratch or based on your content



Excel

Extract insights and dive deeper into data analysis and visualization

Save time with Copilot in the apps you use every day



Search

Search across your data to quickly find what you need



OneDrive

Ask questions and compare information in your files



SharePoint

Create, design, and refine SharePoint Pages



OneNote

Organize, summarize, and rewrite your notes for clarity



Whiteboard

Spark new ideas, then organize and share them with others



Microsoft 365
Copilot is built
on trust

Microsoft commitments and controls



We secure your data
at rest and in transit



You control
your data



Your data is not used
to train or enrich
foundation models



You're protected
against AI security and
copyright risks¹

¹ [Learn more about the Customer Copyright Commitment](#)

Protect your data with secure, enterprise-ready AI Copilot Control System



Copilot + Agents



Security & Governance

Data security
AI security
Compliance & privacy



Management Controls

Licensing & metering
Agent lifecycle
Customization



Measurement & Reporting

Readiness and adoption
Productivity impact
Business value & ROI

Training & support resources



[Microsoft Learn](#) – Professional development resources for educators



[Best practices from Microsoft Technical Trainers](#) Microsoft Learn course



[Define academic and industry requirements for implementing certifications in degree programs](#) Microsoft Learn course



[Course Planning for Educators with Microsoft Learn](#)



AI Training and Resources



Students

[AI Foundations](#)

[Minecraft Hour of Code: Generation AI](#)

[Intro to AI with Minecraft](#)

[AI for Earth – Minecraft lessons](#)

[AI for Good Hour of Code – Minecraft](#)



Faculty

[Empower faculty to explore the potential of artificial intelligence](#)

[Enhance teaching and learning with Microsoft Copilot](#)

[AI Classroom Toolkit](#)

[Facilitate the Hour of Code: Generation AI](#)

[Prepare to teach Azure AI Fundamentals](#)



Adoption materials

[Microsoft Copilot](#)

[Copilot for Microsoft 365](#)

[Explore generative AI with Copilot](#)

[Copilot Prompting Toolkit](#)

[AI Builder Prompt engineering guide](#)



Microsoft AI fundamentals

[Introduction to generative AI](#)

[Introduction to the Azure OpenAI Service](#)

[Responsible Generative AI](#)

[Azure AI Fundamentals](#)

[Identifying principles and practices for responsible AI](#)



Learn more

[Expanding Microsoft Copilot access in education](#)

[Microsoft's approach to AI](#)

[Responsible AI](#)

[Microsoft AI help & learning](#)

[TeachAI Toolkit](#)

Microsoft Copilot for Educators course on Microsoft Learn

aka.ms/CopilotforEducators



Enhance teaching and learning with Microsoft Copilot

1 hr • Module • 8 Units

[Feedback](#)

Beginner

K-12 Educator

School Leader

Higher Education Educator

Bing

Microsoft Edge

Copilot

Explore using Microsoft Copilot in education by learning basic concepts, modes, and features and then applying that knowledge to design effective prompts and analyze results.

Learning objectives

Upon completion of this module, you'll be able to:

- Summarize the basics of Microsoft Copilot and how they can help educators
- Use Copilot and use the basic functionality provided in all its features
- Design prompts that support teaching and learning
- Judge the responses produced by Copilot for overall quality and credibility

[ISTE Standards for Educators](#) [↗]:

- Educator - Designer
- Educator - Learner

900 XP

AI for Educators course on Microsoft Learn

<https://aka.ms/aiforeducators>



1000 XP

Empower educators to explore the potential of artificial intelligence

53 min • Module • 9 Units

★★★★★ 4.8 (614)

Beginner

K-12 Educator

Higher Education Educator

Bing

Microsoft Edge

Flip

PowerPoint

Navigate AI in education by looking at essential AI concepts, techniques, and tools, highlighting practical applications. AI can support personalized learning, automate daily tasks, and provide insights for data-driven decision making.

Learning objectives

Upon completion of this module, you'll be able to:

- Describe generative AI in the broader context of AI in terms of how these systems work and what they can do.
- Explain what a large language model (LLM) is and the basics of how it works.
- Use generative and summative capabilities of LLMs (generate text, expand from main points, condense into main points, answer questions based on given text, etc.).
- Summarize potential impacts.
- Explain how AI can be used to improve learning outcomes, reduce educator workload, and increase learner engagement.

THANK YOU