Al Teacher Assistants CoPilot, Khanmigo

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EdTech

Enhancing Digital Literacy

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Enhancing Lesson Planning and Instructional Design with Al October 9, 2024

Webinar Description

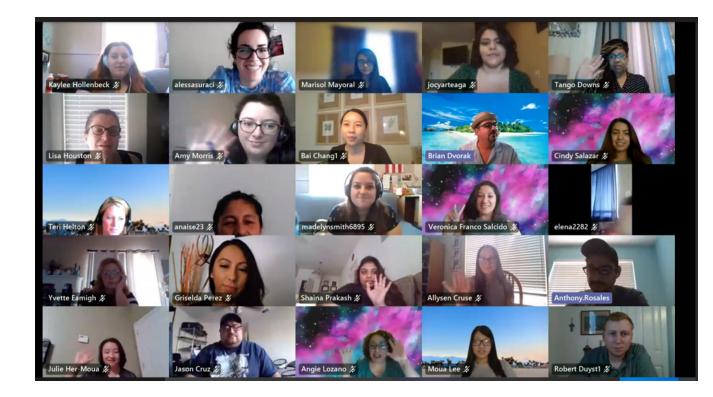
For our next Ed Tech Webinar educators will explore how to use generative AI as a teacher assistant for lesson planning, designing student tasks, and creating lesson resources. Participants will have the opportunity to learn and practice with Microsoft CoPilot and Khan Academy's Khanmigo.

Streamline your lesson planning process and generate dynamic class activities incorporating personalized learning strategies to support diverse learners. Develop tasks to enhance student engagement while providing instruction at the depth and rigor of grade-level standards.

We will use AI tools to generate a variety of instructional resources; including rubrics, graphic organizers, and visuals that can help communicate content clearly to students. The session will also include a Q&A to ensure all your questions are addressed.

Welcome and Nute Norms 8 Ð (\cdot) Æ 61 29 N Ø \uparrow • • • Leave Chat More Camera Mic Share People Raise React View Rooms Apps

- Mute mic when not speaking
- Use the Chat area to ask questions or get help
- Say Hello in our Chat Now:
 - How have you been using AI?
- Engage in the content and prompts



This Session is being Recorded







Who is Fresno EdTech?

- Brian Dvorak
- Matthew Schwartz
- Dr. Molly O'Neill

Cyber Safety Week -October 14-18

• <u>Cyber Safety Week - October 14-18,</u> 2024 | Post Display (fresnounified.org)

 During the week of October 14-18, 2024, all students, K-12, will participate in the district's Cyber-Safety Week. The requirement is that all students receive at least one cyber-safety or digital citizenship lesson during this week or sometime during the month.

Fresno Unified School District

ABOUT ACA

Digital Citizenship

What is Digital Citizenship?

Digital citizenship refers to the responsible use of tec computers, the Internet, and digital devices to engag

In today's digital world, our students can only be succe they obtain a solid foundation of digital citizenship. Thi in our district-adopted **Graduate Profile**.

Educational Technology Website go.fresnou.org/edtech

Educational Technology						
		EDTECH HOME				
		CLASSROOM APPS	>			
Latest Posts		CLASSROOM HARDWARE	>			
ECHCON 2025	EVENTS	DIGITAL CITIZENSHIP				
CONTRACTOR OF CONCERNMENT	2025 FUSD EdTech Conference	EDTECH CONFERENCE				
	Brian Dvorak Oct 4 2024	EDTECH WEBINAR SERIES				
	The EdTech Team is excited to announce the location and date of our in-person Educational Technology Conference! 🗩 The one-day conference will take	PLI - PERSONALIZED LEARNING AND				
	place at McLane High School on Saturday, February 22, 2025, and will be focused on digital tools in	STUDENT DIGITAL LITERACY				
service of instruction and learning. The sessions will be appropriate for teachers at all		ABOUT				

Webinar Series - Resources

Fresno Unified School District ABOUT ACADEMICS DEPARTMENTS EMPLOYMENT COMMUNITY CONNECT WITH



Links to Previous Recordings and Resources

Check back here to find Video Recordings of all of our Webinars and the related Resources.

Session Title	Resources	
Adobe Express - Sept 12th	Video Recording Other Resources	

EDTECH WEBINAR SERIES

EDTECH CONFERENCE

PLI - PERSONALIZED LEARNING INNOVATION

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848 Following 850 Followers

Agenda

New AI Language in AUP

Al Awareness

Khanmigo

CoPilot

Overviews and Hands-on Practice

Student Applications and Al Instructional Resources

Q&A and Closure



New Al Language in AUP

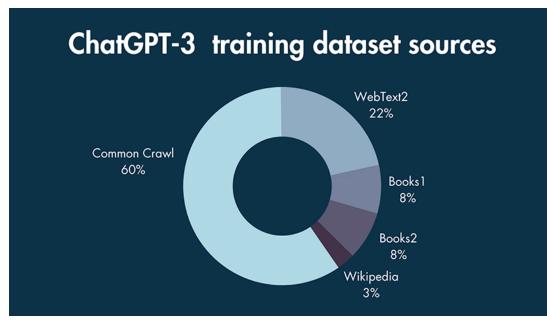


New AI Language in <u>AUP</u>

- The use of Artificial Intelligence (AI) technology in our educational environment is intended to enhance learning experiences and foster innovation. Artificial Intelligence (AI) technology is defined as and includes, but is not limited to, Large Language Models (LLM), Machine Learning (ML), and Natural Language Processing (NLP) Platforms. All learners are expected to utilize AI resources responsibly and ethically. This includes respecting the privacy of individuals, being mindful of the accuracy and reliability of AI-generated information, and refraining from using AI for malicious or inappropriate purposes.
- Learners will follow all guidelines set by teachers and school site staff regarding the use of AI as part of planning, instruction, and learning.
- Learners must abide by the AI platform's terms of service (TOS) and federal and state student data privacy laws, and teachers and staff must solicit parental consent when necessary.
- Learners are prohibited from using any AI system to access, create, or display harmful, deceptive, or inappropriate matter that is threatening, obscene, disruptive, or sexually explicit or that could be construed as harassment or disparagement of others based on their sex, or perceived race, color, ancestry, national origin, age, religious creed, marital status, pregnancy, physical or mental disability, medical condition, genetic information, military and veteran status, sex, sexual orientation, gender, gender identity, or association with a person or group with one or more of these actual or perceived characteristics or interact with the AI in a manner that supports any of the above.
- Learners shall not share confidential information or personally identifiable information with an AI system of themselves, students, staff members, or others. Personally identifiable information includes, but is not limited to, a person's name, address, email address, telephone number, Social Security number, or other personally identifiable information.
- Learners will not employ AI systems to make high-stakes decisions that significantly impact people's lives without proper human oversight, transparency, or the ability to appeal.
- Learners will not allow AI systems to run unchecked and make decisions that could jeopardize safety in dangerous industrial settings, vehicles, infrastructure, etc.

Is OpenAI, ChatGPT reliable?

- ChatGPT finds it's information from Datasets
- The largest dataset is **Common Crawl**
- The smallest dataset is Wikipedia
- Is it looking at reliable fact-based sources or opinion?





Best Practices for Using Generative AI

- Check for Bias and Accuracy AI might occasionally produce biased or incorrect content. Always double-check before sharing with students.
- Use the Copilot Approach Use AI for initial work, but make sure to add your final touch and context. Use AI as a thinking partner.
- **Protect Privacy** Don't include personal student details like names or addresses.

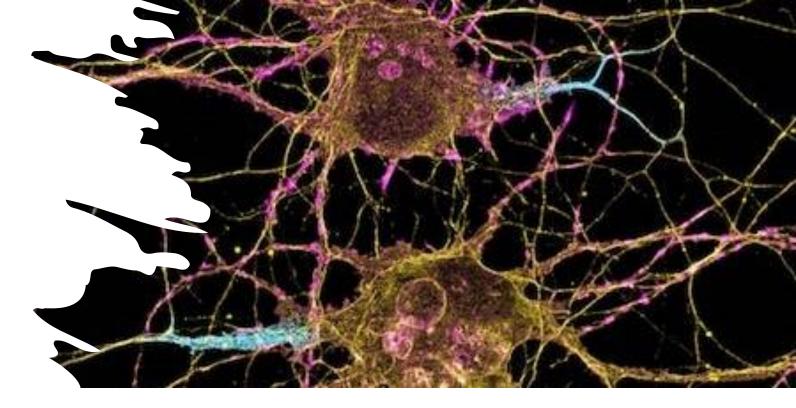


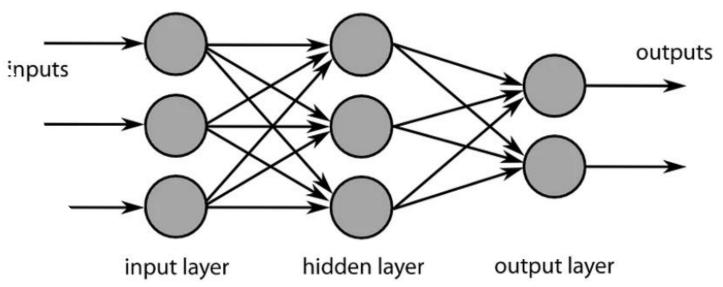
How does this work?



<u>Neural</u> <u>Networks</u>

- Al is modeled after our brains!
- Connections between two neurons in the brain represents Al's connections between data sets
- Programmers use math instead of biological signals
- Connections strengthen with practice
- Deep Learning is MANY neural networks





1 A diagram of a small artificial neural network (Image Source)

Artificial Intelligence is Powered by Machine Learning

 "In machine learning, AI developers don't program explicit rules for solving a problem. Instead, a program receives a dataset of examples, analyzes patterns in the dataset, and figures out its own rules from that data" (Ganelin, Kleiman, 2023).

Artificial Intelligence

The theory and development of computer systems able to perform tasks normally requiring human intelligence

Machine Learning

Gives computers "the ability to learn without being explicitly programmed"

Deep Learning

Machine learning algorithms with brain-like logical structure of algorithms called artificial neural networks

LEVITY

<u>Types of</u> <u>Machine</u> <u>Learning</u>

Adobe Stock | #542232134

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SUPERVISED

TASK DRIVEN

(PREDICT NEXT VALUE)

MACHINE LEARNING

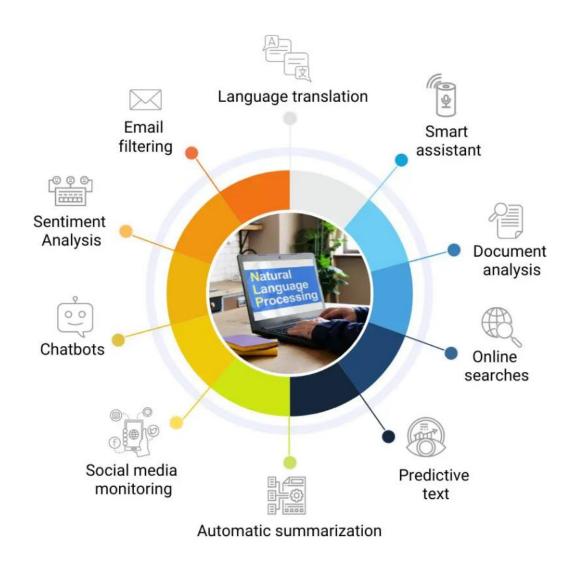
UNSUPERVISED DATA DRIVEN (IDENTIFY CLUSTERS)



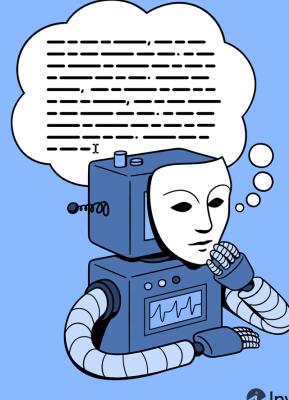
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Natural Language Processing

• Allows computers to communicate with human language



Large Language Models



Large Language Model (LLM)

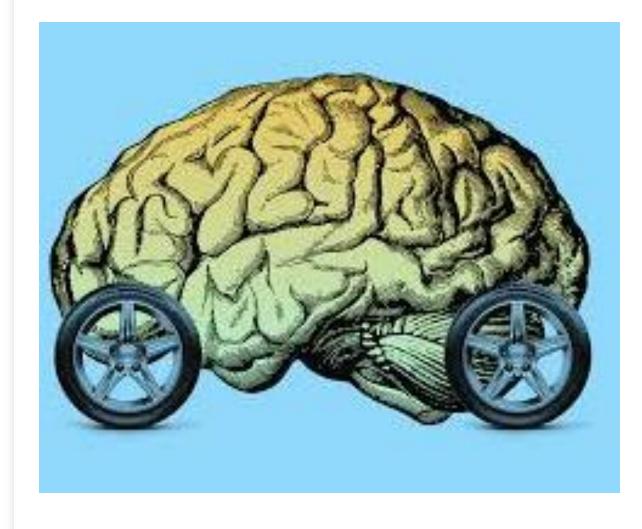
[ˈlärj ˈlaŋ-gwij ˈmä-dəl]

A deep learning algorithm that's equipped to summarize, translate, predict, and generate human-sounding text to convey ideas and concepts.

Investopedia

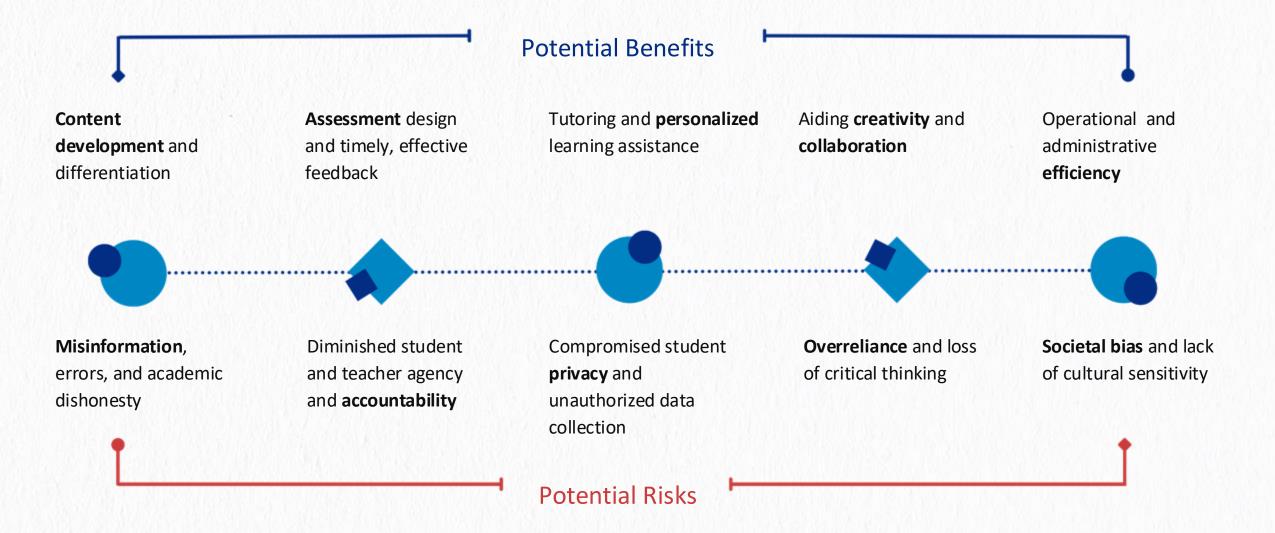
<u>The Driverless Dillema Radiolab</u> <u>Podcast</u>

AI and Ethical Implications





Potential Benefits & Risks of Using AI in Education





Intro to Overviews and Hands-on Practice

- Our Process to Explore Khanmigo and Copilot...
 - We'll start with a short overview with demos and examples of each application
 - Followed by Hands-on Practice
 - Criteria for Success for Hands-on Practice

"Matt will get us started and then I'll be sharing CoPilot next. Let's do this!"



Meet Khanmigo your free, Al-powered teaching assistant

Overview of Khanmigo

Khanmigo is your always-available lesson plan helper.



For teachers

Knock something off your to-do list in minutes.

For learners

Prep for tests without breaking a sweat.

For parents

On-demand help makes homework time a breeze.

For Teachers

Get started — it's free

Sign up for free today and start checking items off your to-do list.

✓ Generate standards-aligned, differentiated lesson planning tied to our content library.

- ✓ Get an on-demand summary of student work to assess progress and identify areas for support.
- ✓ Create learning objectives, rubrics, and even exit tickets.
- Refresh your content knowledge in various subject areas.
- ✓ Access your Khanmigo chat history.

Sign up for free

Khanmigo Pricing and Versions





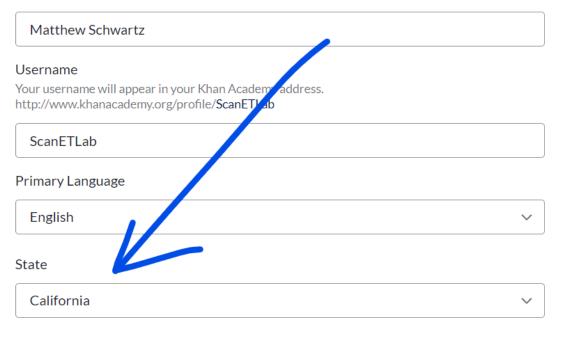
Settings

Account Email Khanmigo

Basics

Nickname

This is how your name will appear around Khan Academy, and how your friends and coaches will recognize you.

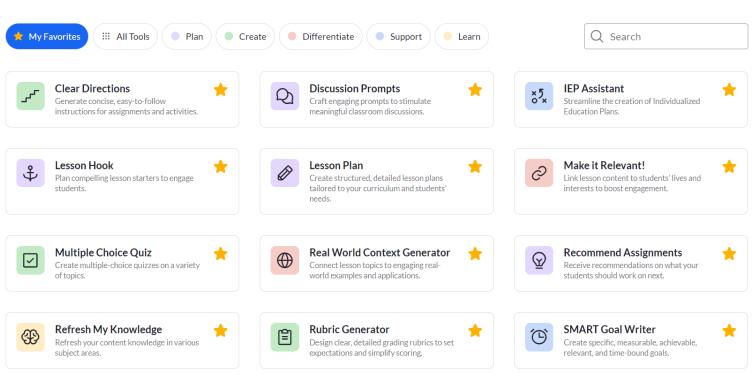


Select your State in your Profile

Let's take a look at Khanmigo Tools

Khanmigo Tools

Free AI powered tools designed to save you time and improve instruction!



Tools

My Documents

Hands-On Practice Khanmigo

- 1. Navigation and Familiarity Login and Access Khanmigo Tools
- 2. Practical Application use at least one tool, related to your classroom or an upcoming lesson
- 3. User Experience: Note any challenges or questions, any features that were helpful or user-friendly.
- 4. Collaboration and Sharing: Be prepared to share one insight or tip; how could these tools be integrated into your teaching practice?

Khanmigo Discussion





Ease of Use: How intuitive were the tools? Were there any difficulties in navigating or using them?

Impact on Teaching: How do you think these tools could impact your teaching and student engagement?

Suggestions for Improvement: Any ideas on how the tools could be improved or better supported?

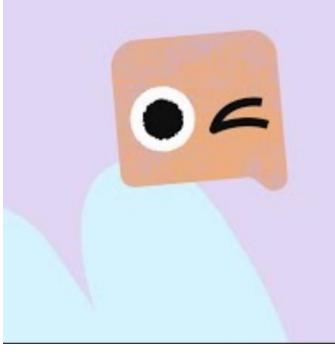


Khanmigo Resources

Meet Khanmigo: Khan Academy's Al-powered teaching assistant & tutor

Criterion	Yes	Almost	No
Understanding of Place Value	The student correctly identifies and uses place value in all problems.	The student mostly identifies and uses place value correctly, with minor errors.	The student makes significant errors in identifying or using place value.
Accuracy in Computation	The student performs all computations accurately.	The student performs most computations accurately, with minor errors.	The student makes significant errors in computation.
Application of Strategies	The student applies appropriate strategies to solve problems.	The student applies strategies, but they are not always appropriate or fully correct.	The student does not apply appropriate strategies or uses incorrect strategies.
Explanation of Reasoning	The student clearly explains their reasoning and the steps they took to solve the problem.	The student explains their reasoning, but the explanation is somewhat unclear or incomplete.	The student does not explain their reasoning or the explanation is unclear.

Khanmigo Created Rubric Example



Meet Khanmigo

your free, AI-powered teaching assistant

Meet Khanmigo



Teaching ELA with Khanmigo



Sal Khan TED Talk– How AI Could Save (Not Destroy) Education

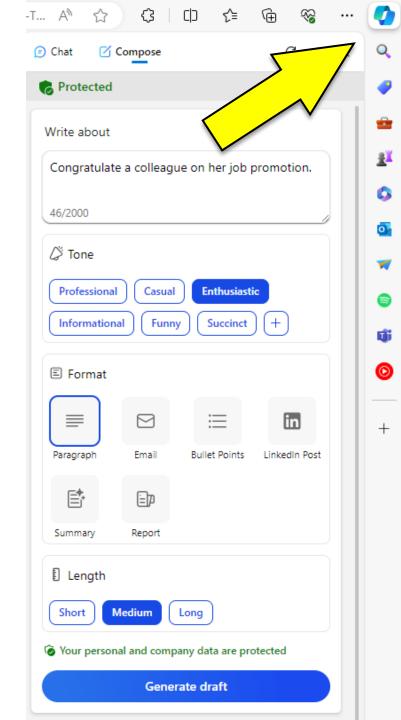
Microsoft CoPilot





- Website: copilot.microsoft.com
- Microsoft 365: office.com
- Edge Browser: Look for the Copilot logo in the upper right corner (Chat with Copilot while viewing any web page)







Enhancing a Lesson with Al

Instructions: Consider an upcoming lesson. Create an activity, task, assessment, CFS, etc., to enhance your lesson.

- Add Collaborative Tasks
- Include Real-World Task
- Create a Choice Board of Activities
- Create a reflection activity
- Other

Sample Questions for Co-Pilot

- Provide some structures and norms for my [grade level] students to work on a group project in both face-to-face and digital spaces.
- Provide some [real-world tasks/ collaborative tasks/ independent task] to help [grade level] students learn the CA [insert specific standards]
- Provide 3 differentiated activities for teaching [concept] to a mixedability [grade level] class. Include one activity each for visual, auditory, and kinesthetic learners.

More Prompt Ideas for Teachers

<u>A Teacher's Prompt Guide to</u> <u>ChatGPT aligned with 'What Works</u> <u>Best' (wordpress.com)</u>

A Teacher's Prompt Guide to ChatGPT aligned with 'What Works Best'

By following this guide, you will learn how to effectively incorporate ChatGPT into your teaching practice and make the most of its capabilities. We will provide specific examples and strategies aligned with CESE NSW's "What Works Best" to help you gut started.

@herfteducator



How was the Copilot Experience?

Opportunities for Students to Use Al

- Student Applications

 Adobe Express
 Canva
 Padlet
- Instructional Resources
 Ocode.org
 - Al for Oceans Code.org

 \circ Khan Academy

 How Al works | Code.org | Computing | Khan Academy

Please Complete the Feedback Form

- Your feedback informs what types of trainings we may offer
- Your feedback can help us improve our training
- We will send a follow-up form
- We would love to visit your classroom and see how you're using AI

Tech Training Evalutation Form -2025



Questions and Answers

- Please post questions in the chat or raise your hand
- Remember; if you need time to formulate a question, you are free to contact us anytime, including after this presentation

