Generative AI in Higher Education

Webinar 3 of 4:
AI and General Productivity

5/15/2024

Overview

- Introduction
- Quick poll
- Examples
  - Summarizing documents
  - Brainstorming
  - Coding assist
  - Building your own AI assistant: Use AI to eliminate drudgery and become more efficient
- Future-Proofing Yourself: Key Skills for Generation AI
- Future Workplace Trends
- Challenges and Concerns
- Discussion

Your Hosts

Cheryl Aschenbach
President, Academic Senate for California Community Colleges

Evan Hawkins
Association Executive and former Executive Director, Faculty Association of California Community Colleges

Craig Hayward
Visiting Executive, Strategic Research and Innovative Design, CCCCO

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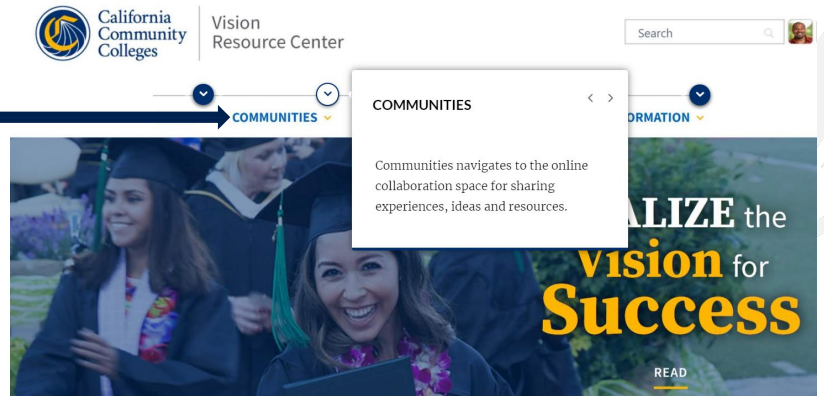
Generative AI Webinar Series

I. Overview and Introduction to Generative AI - September 25, 2023
II. Generative AI as a Tool for Teaching and Learning - November 7, 2023
III. Generative AI as a General Productivity Booster - February 27, 2024
    I. Encore May 15, 2024
IV. AI-Enhanced Analytics and Learning Platforms – May 7, 2024

Webinar recordings can be found on the Vision Resource Center in the area designated for Chancellor's Office webinars under 'Communities'
https://login.visionresourcecenter.cccco.edu/login



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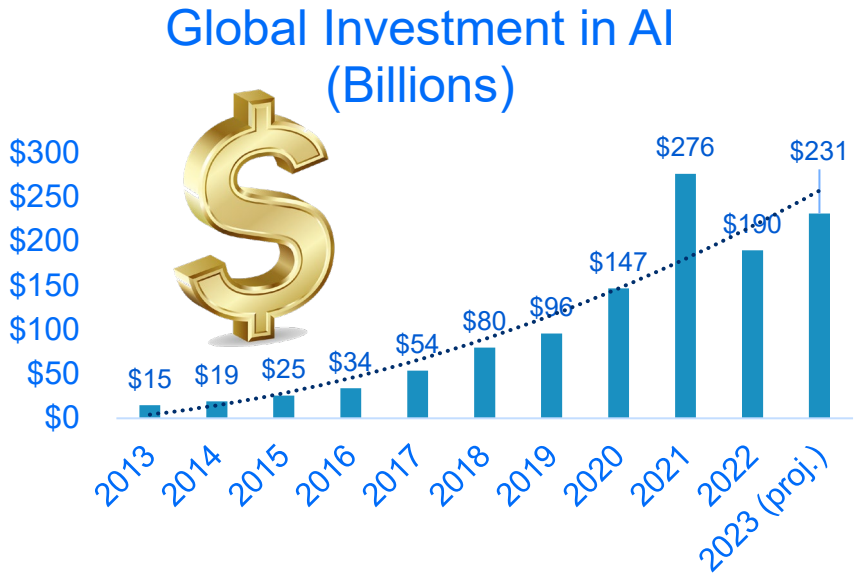
Introduction: Understanding the Impact of AI

- Why will AI have such a huge impact? Think **RAAM**:
  - Rapidly evolving
  - Asynchronous
  - Autonomous
  - Multi-purpose
- Other technologies are converging to broaden the impact of AI
  - Printable biologics
  - Robotics
  - Quantum computing
- Record-breaking rate of adoption



https://ourworldindata.org/grapher/corporate-investment-in-artificial-intelligence-by-type

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See The Coming Wave by Mustafa Suleyman for additional detail

Live Poll

1. What one word describes how you feel about generative AI in higher education?
2. What is your primary role in the California community college system?
3. Are you optimistic or pessimistic about generative AI in higher ed?
4. Are you using generative AI in your work?
5. What percentage of students do you think are using generative AI?
6. How many CCCCO AI webinars have you attended?
7. Have the webinars prompted you to explore uses of AI?

Access the poll here: https://bit.ly/GenAIpoll3

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Poll results

- See results here: https://ql.tc/UcBLWb

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Enhancing Productivity

Allowing us to focus on the more meaningful and challenging aspects of our jobs

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List of ways to use AI to increase efficiency

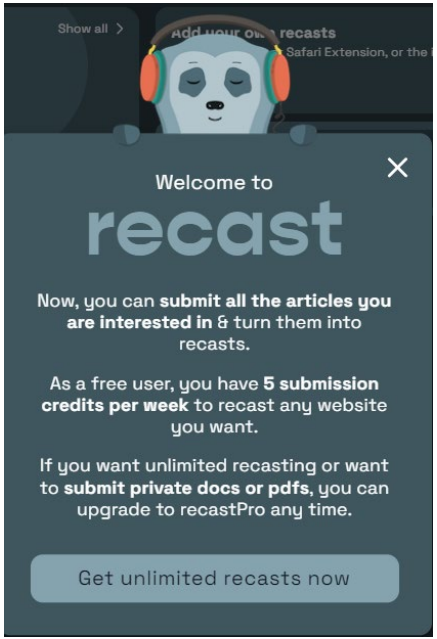
- Writing (grant proposals, reports, speeches)
- Summarize articles or YouTube videos (Recast, Claude, ChatGPT, etc.)
- Teach you how to…
  - Code
  - Use Photoshop
  - Speak Spanish
- Translate legal or technical documents into less formal text
- Brainstorm or respond to prompts to create new content
- ChatGPT can study and learn how you write and produce text in your style
- Email management (Superhuman, Shortwave)
- Notetaking (Otter.ai, Circleback, Zoom Companion AI)

Examples and Demonstrations

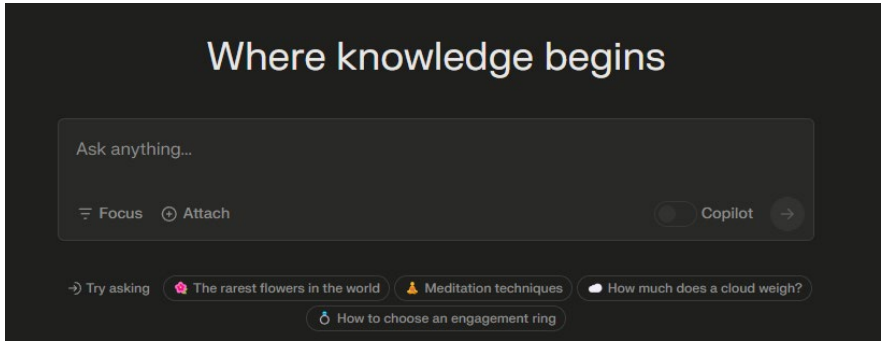
Summarizing Documents

Question: What are the most important elements of Vision 2030?

- Audio



- Text



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Brainstorming and Planning

- What aspects of Vision 2030 will be most difficult to accomplish?
- What aspects of Vision 2030 will be most easily accomplished?

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Build Your Own AI Assistant

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Coding Assist

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Generation AI

If AI is doing a lot of our work, what should humans be focused on?

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Ten Key Skills for an AI-Infused Economy

1. Analytical thinking
2. Creative thinking
3. AI and big data
4. Leadership and social influence
5. Resilience, flexibility, and agility
6. Curiosity and lifelong learning
7. Technological literacy
8. Design and user experience
9. Motivation and self-awareness
10. Empathy and active listening

World Economic Forum's Top Ten Skills for 2025:
https://www.weforum.org/agenda/2020/10/top-10-work-skills-of-tomorrow-how-long-it-takes-to-learn-them/

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Challenges and Concerns

- Bias in the system
- Uncertainty & anxiety
- Identify time to learn new skills
- Access to the best AI tools
- Privacy concerns
- Energy and environmental concerns

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The H.U.M.A.N.S. Framework

- **Human-Centered** - Students should be able to opt out, where appropriate, and have access to a person who can quickly consider and remedy problems they encounter.
- **Universal** - Students, faculty, staff and administrators should have equitable access to tools, training and solutions that minimize bias and promote equity.
- **Managed Privacy Controls** – Empower students to have agency over how data about them is used and set parameters that shield them from abusive data practices via built-in protections.
- **Algorithmic Discrimination Protections** - Students should not face discrimination by algorithms and systems should be used and designed in an equitable way.
- **Notice and Explanation** – Students should know that an automated system is being used and understand how and why it contributes to outcomes that impact them.
- **Safe and Secure:** Students, faculty, staff and administrators should be protected from unsafe or ineffective systems.

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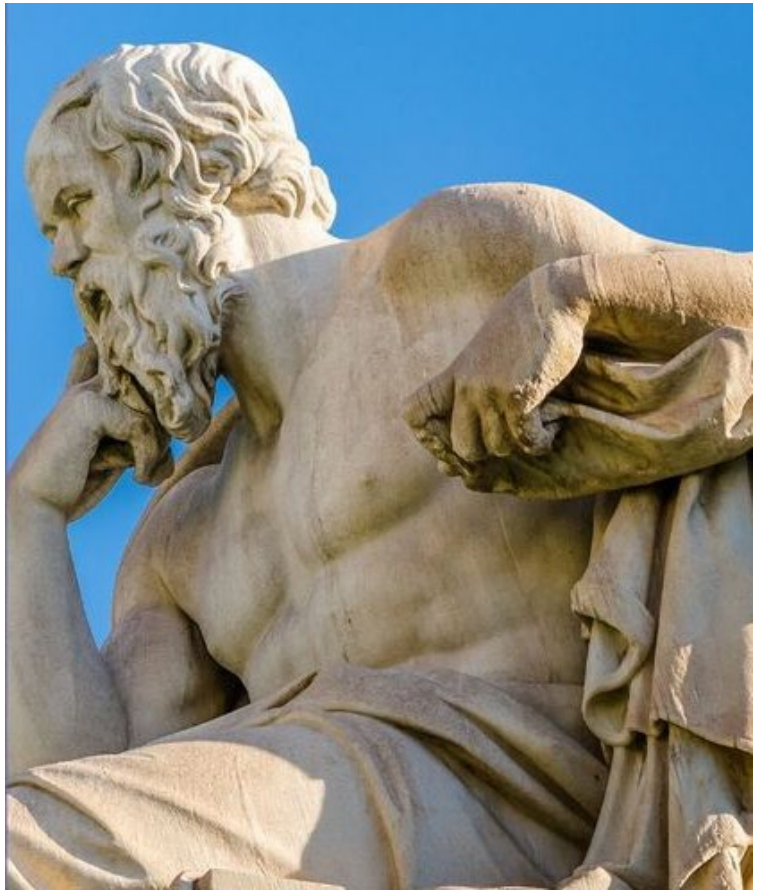
Q&A



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Thank you!

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