Artificial Intelligence in Education

Inland Personnel Council—3rd General Meeting May 3, 2024



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Agenda

Brief Overview of AI in Education

Cerritos • Fresno • Irvine • Marin • Pasadena • Pleasanton • Riverside • Sacramento • San Diego

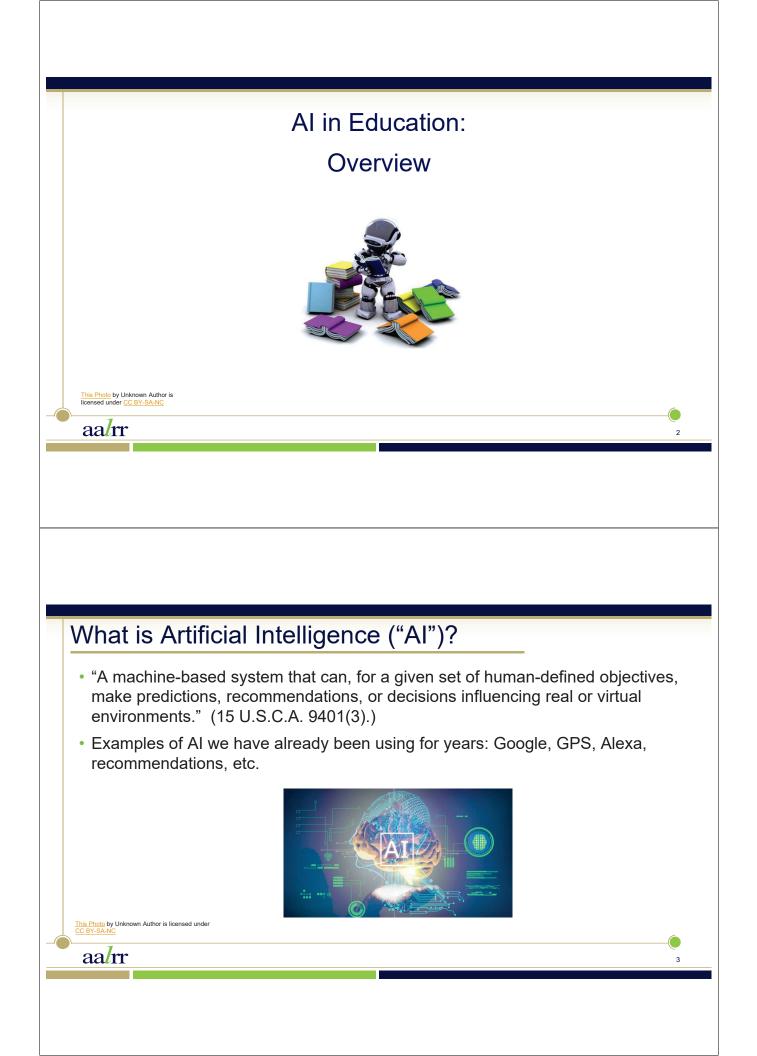
- A Closer Look at ChatGPT
- Legal Issues
 - Best Practices
- 🛃 Q & A

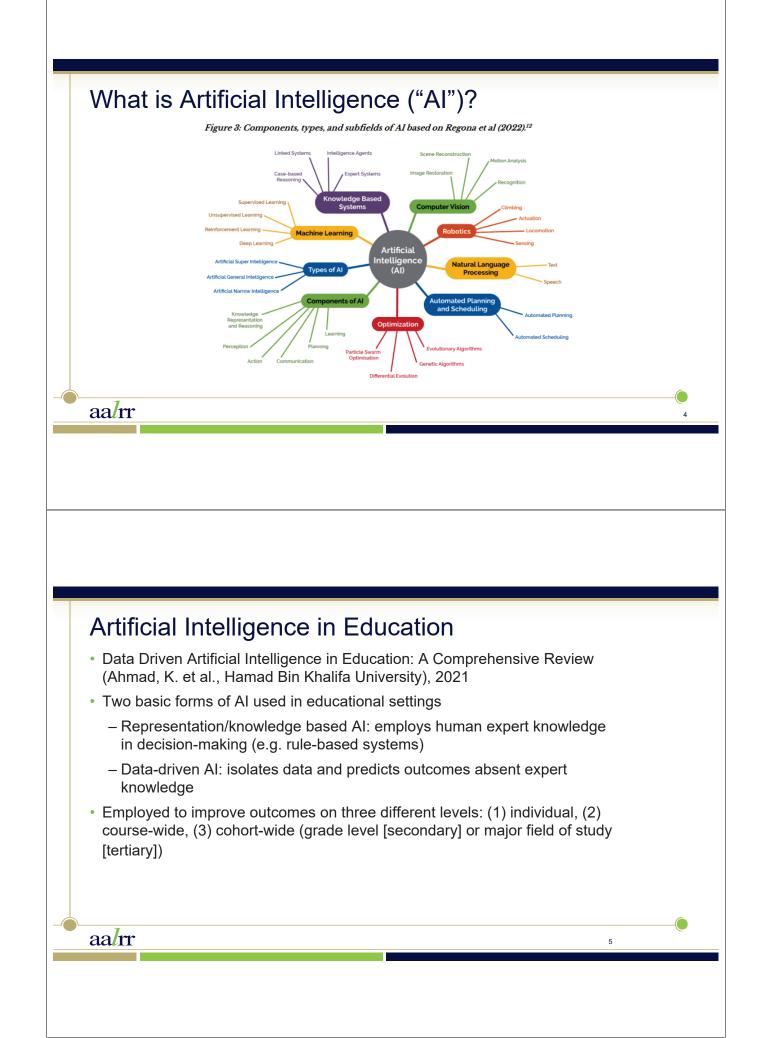


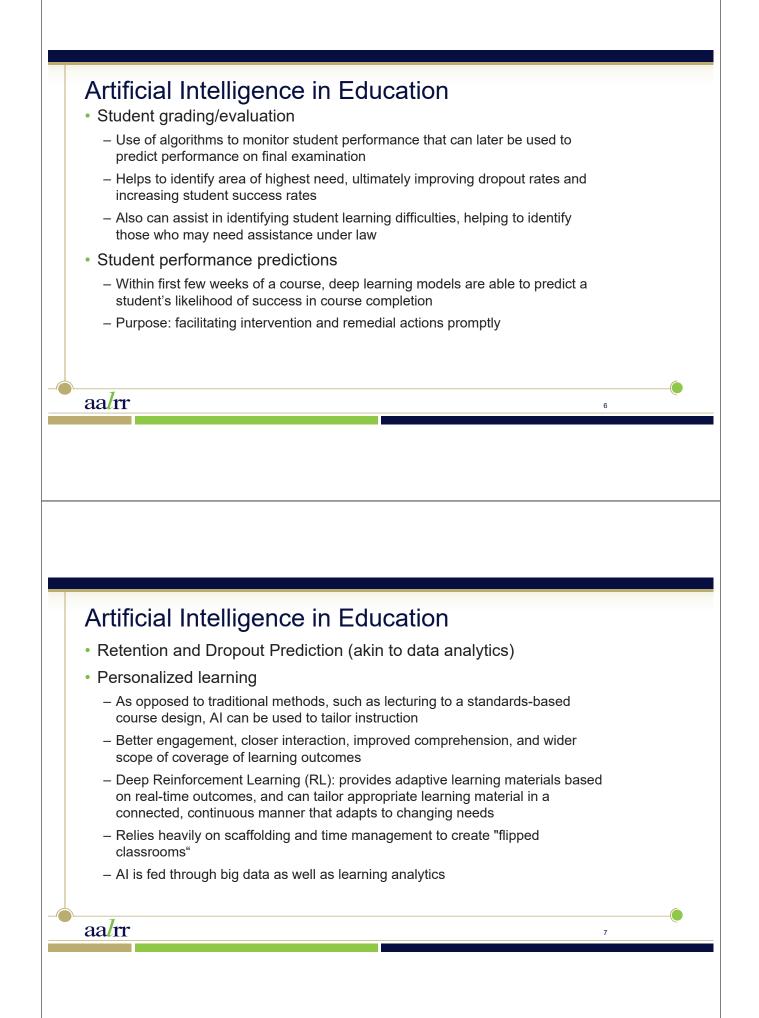
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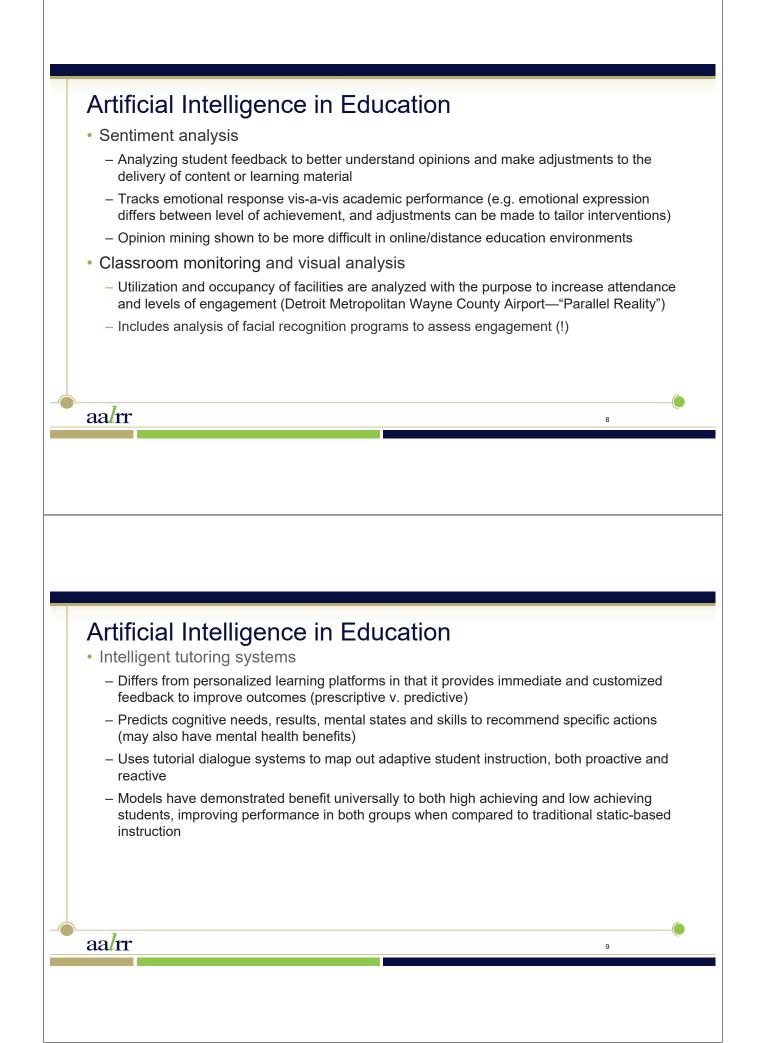


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Al's Capabilities (GAME)

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Al in Education: A Closer Look at ChatGPT 10

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ChatGPT: Overview

- Overview and Demonstration
- How it works
- Key features
- Benefits/drawbacks
- Ethical considerations
- Legal issues in education

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ChatGPT: Overview

- Advanced language model Natural Language Processing
- Al chatbot

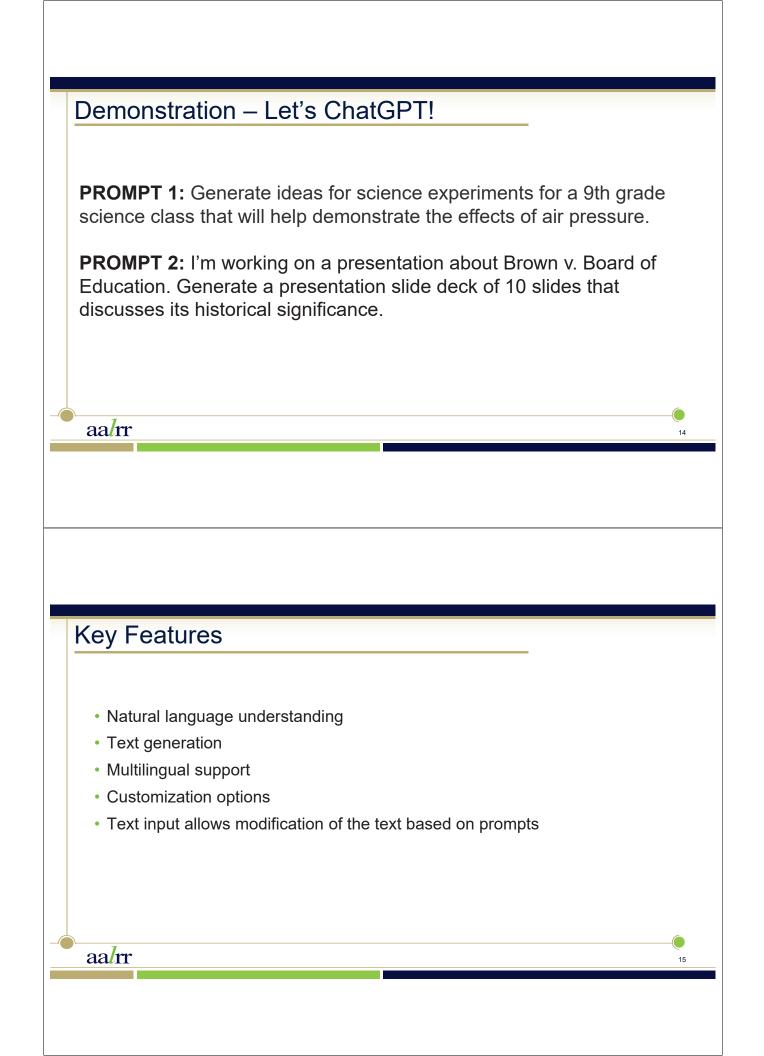
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 Generative Pre-Trained Transformer model – to understand and generate text based on prompts

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• Trained on massive data from the internet but stopped adding as of January 2022



How can teachers use ChatGPT?

- Lesson planning
- · Personalized learning plans for students
- Adaptive tutoring
- Homework and assignment assistance
- Test preparation
- Explaining complex concepts

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How can Human Resources use ChatGPT?

- Creating letters and correspondence
- Creating job descriptions
- Employee evaluations
- Evaluating responses to interview questions
- Preparing emails
- Useful tool, but be careful...



Dear [Employee's Name],

I hope this letter finds you well. We are writing to address a matter of concern that has come to our attention. It has been brought to our notice that you have been discussing your compensation with colleagues, which is a violation of our policy on confidentiality and professionalism.

We want to emphasize that our company places a high value on maintaining a positive and respectful work environment. As part of our commitment to fostering a collaborative workplace, we have implemented policies to ensure confidentiality and protect sensitive information, including details about employees' compensation.

Discussing personal compensation matters openly can create discomfort among employees and may lead to misunderstandings. As such, we must insist on compliance with our company policies.

Upon review of this matter, we have decided to take the following disciplinary action:

[Specify the disciplinary action – e.g., verbal warning, written warning, suspension, etc.]

Please be aware that this action is not intended to be punitive but rather as a reminder of the importance of adhering to company policies. We believe in your commitment to maintaining a professional and collaborative work environment, and we trust that you will adjust your behavior accordingly.

We encourage you to review our company policies, specifically those related to confidentiality, and ensure that you are familiar with the expectations outlined therein. If you have any questions or concerns regarding this matter, please feel free to contact [HR Contact Person] at [HR Contact Person's Email] or [HR Contact Person's Phone Number].

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How can administrators use ChatGPT?

- Virtual assistant for administrative tasks
- Teacher professional development
- Answering frequently asked questions
- Parent/teacher communications
- Student registration and enrollment assistance
- Student counseling and mental health support



Benefits of ChatGPT

- Improved communication
- 24/7 Accessibility
- · Efficient administrative support
- · Enhanced parent and student engagement
- Language support
- Data collection and feedback

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Drawbacks of ChatGPT

- · Potential for plagiarism/cheating
- · Limited understanding of context and potential for misinformation
- Privacy concerns
- Loss of human interaction
- Overreliance on technology
- Ethical considerations
- Generic outputs
- Accuracy

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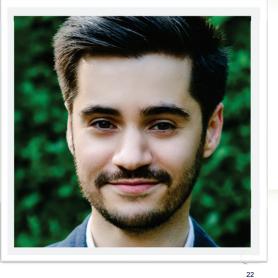
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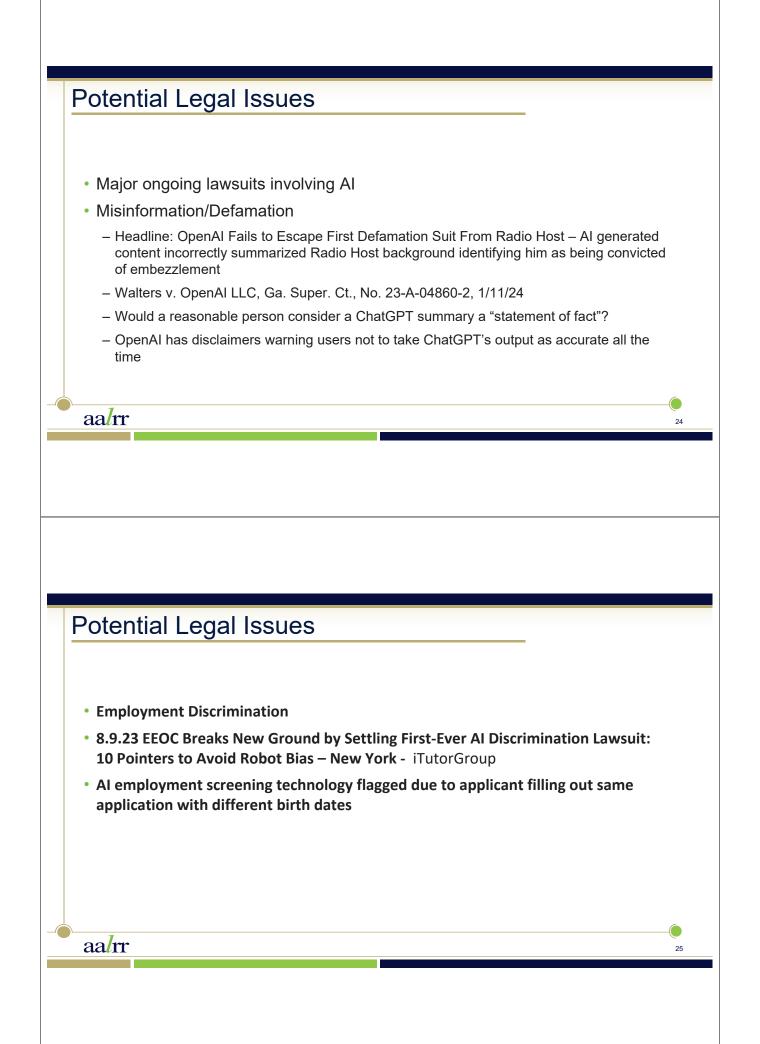


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AI in Education: Challenges & Legal Issues



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Potential Legal Issues

- Intellectual property who owns the prompts and responses?
- Do AI-generated responses infringe on copyright?
- Whether and how will the laws around copyright infringement apply?

Logistical or Legal Concerns

• **Record Retention** – for information pertaining to an identifiable student, how does the record need to be retained (more on this later)?

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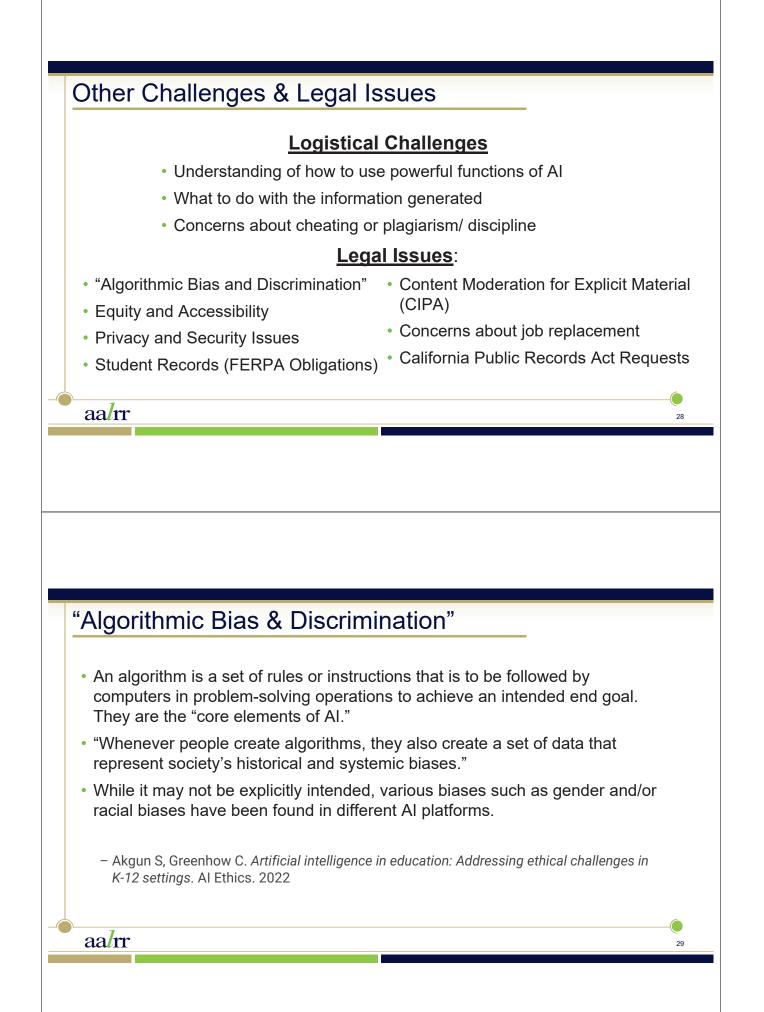
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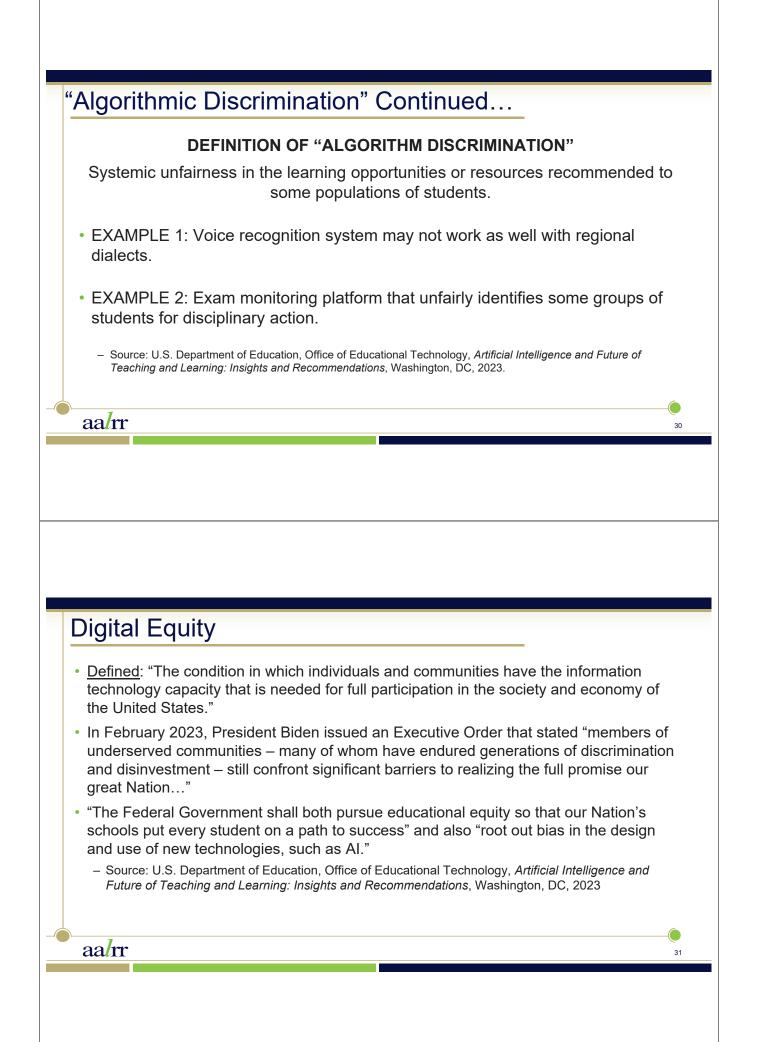
- **Surveillance** for campus monitoring systems, what are the privacy and security risks involved?
- Outside of Al in Education lawsuits involving data use (non-compliance with software licensing requirements, Al tools creating copyrighted images)



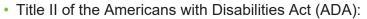
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Accessibility



Prohibits disability-based discrimination in public services furnished by governmental entities. (42 U.S.C. §§ 12131-12165.)

CA Unruh Civil Rights Act:

– All persons within the jurisdiction of this state are free and equal, and no matter what their sex, race, color, religion, ancestry, national origin, disability, medical condition, genetic information, marital status, or sexual orientation, are entitled to the full and equal accommodations, advantages, facilities, privileges, or services in all business establishments, including both private and public entities. Any violation of an individual's rights under the ADA also constitutes a violation of the Unruh Act. (Civil Code § 51.)

- Section 504 of the Rehabilitation Act of 1973:
 - "No otherwise qualified individual with a disability ... shall, solely by reason of her or his disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." (29 U.S.C. § 794(a).)

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Al's Capabilities: Shakespeare or Al on Justice?

Could great men thunder As Jove himself does, Jove would ne'er be quiet, For every pelting, petty officer Would use his heaven for thunder; Nothing but thunder! Merciful Heaven, Thou rather with thy sharp and sulphurous bolt Split'st the unwedgeable and gnarled oak Than the soft myrtle: but man, proud man, Drest in a little brief authority, Most ignorant of what he's most assured, His glassy essence, like an angry ape, Plays such fantastic tricks before high heaven As make the angels weep; who, with our spleens, Would all themselves laugh mortal.

Shakespeare, Measure for Measure



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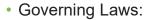
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Yet oft I wonder, in this mortal sphere, Doth thy fair countenance truly prevail? Or doth corruption, like a creeping fear, Within the hearts of men, its venom trail? For justice, though she wears a regal crown, Is oft beset by envy's vicious snare, And power, like a tempest, raging down, Doth cloud her vision with its dark despair.

Chat GPT

Privacy Considerations & Risks Potential Factors: - Clear written policy? Define the "circumstances"; define the privacy right - Information stored on District-owned equipment? - Use of institution network? - Exchange of personal communications? - Notification of how data may be used? aalrr 34 **Privacy in Student Records** Federal and state law: Defines educational records • Protects the privacy of records (and the information contained therein) • Protects the right of access to records aalrr 35

Privacy in Student Records



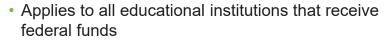
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- Family Educational Rights and Privacy Act (FERPA)
 - 20 U.S.C. § 1232(g)
- Code of Federal Regulations, title 34, Part 99
- California Education Code sections 49060-49085
- California Code of Regulations, title 5, sections 400-450

Privacy in Student Records

Federal

FERPA

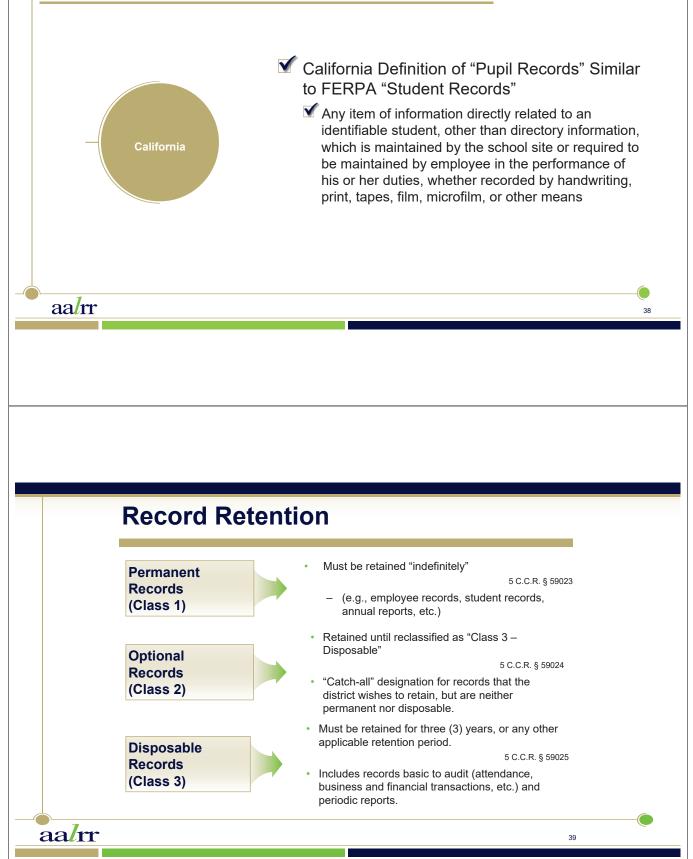


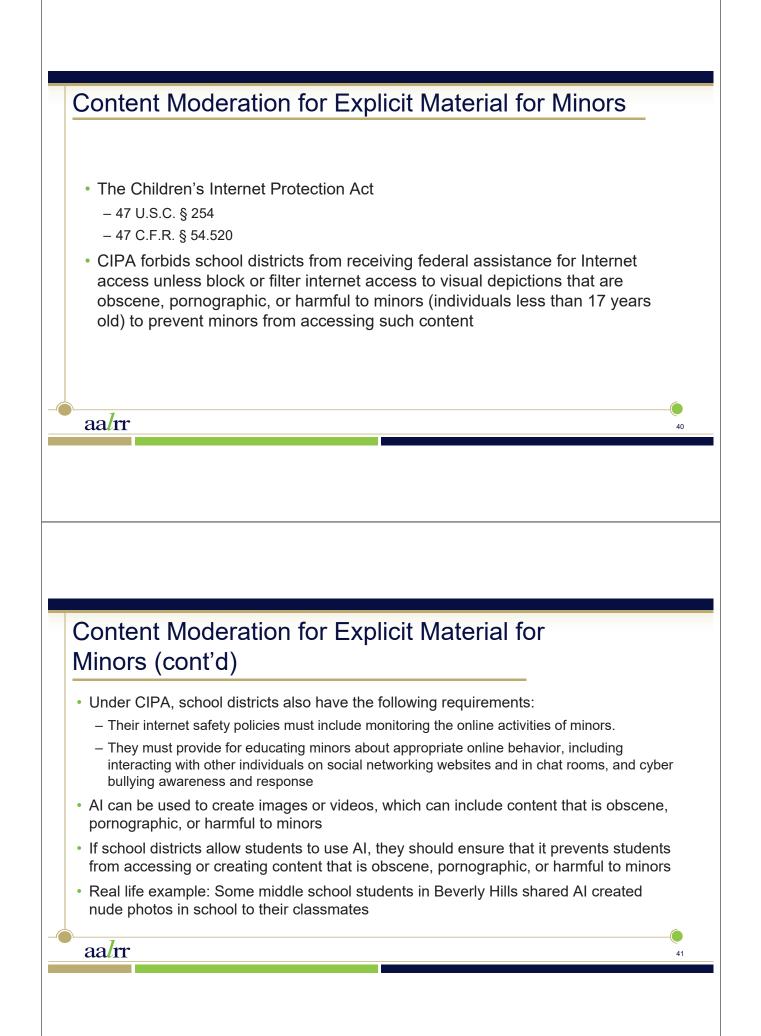
FERPA Definition of "Educational Records"

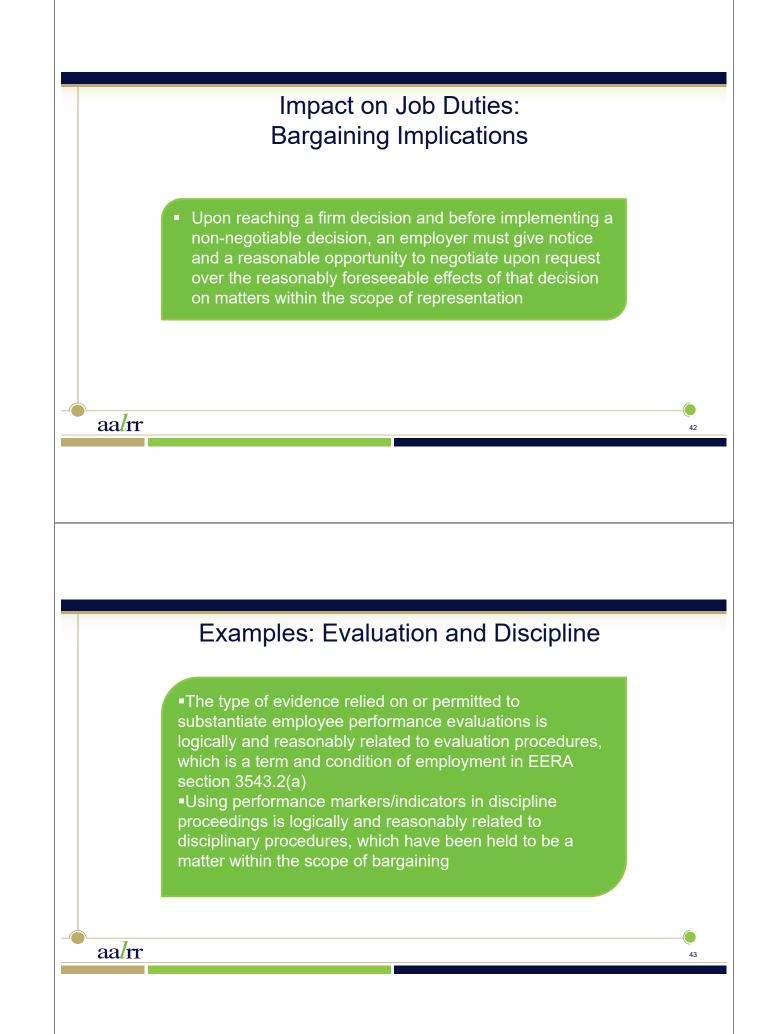
- Those records, files, documents, and other materials which (1) contain information directly related to a student; and (2) are maintained by the educational agency or institution or by a person acting for such agency or institution
 - A "record" is defined as information recorded in any way, including but not limited to, handwriting, print, computer, media video, audio tape, film, microfilm and microfiche

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Privacy in Student Records







Recent Guidance

- U.S. Department of Education report: Artificial Intelligence and the Future of Teaching and Learning: Insights and Recommendations
- President Biden's Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence
- California Executive Order N-12-23

Proposed Legislation and Regulatory Efforts

- What legislation and regulation is intended to accomplish
- Proposed legislation/regulations
 - AB 331 (died): would have prohibited employers from using an automated decision-making tool (ADMT) in a way that contributes to algorithmic discrimination and would have required employers to disclose if ADMT was used to make a "consequential decision," and accommodate employee or applicant request to have the information reevaluated without ADMT
- How might proposed legislation/regulations affect schools?

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Al's Capabilities (GAME)

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Al in Education: Best Practices



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- Ongoing training: PDs centered on emerging technology
- Keep humans in the loop!
- Review/ update policies to address AI: District AUPs, Board Policies, Student Handbooks

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Best Practices: Review District Policies

- Existing policies may be read to cover AI
- Consider (a) updating District policies to expressly account for AI or (b) creating a new District policy specifically about AI

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- Guiding principles for AI use
- How AI can be used to augment learning
- Reaffirm commitment to existing policies
- Protection of privacy

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- Expectations regarding academic integrity

Best Practices

· Learn how to identify AI generated content - Perplexity - Rigid structure - Tone - Generic language - Writing style - "Too good to be true" improvement in work quality - Consider AI to catch AI generated content - GPTZero, Turnitin, etc. · But these have frequent false positives and false negatives aalrr **Best Practices – Ongoing Training** Implicit Bias/ Cultural Meaningful PDs on AI Competence training to platforms to level playing recognize and address field and warn against "Algorithmic Bias and sharing sensitive Discrimination" and ensure information about equity and accessibility for all themselves, colleagues,

or students

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students

Guiding Quest	ione:	
 – 1) What is the vis 		stem that leverages automation to advance
• ·	will we be ready with necessary gu	idelines and guardrails to ethically and equitably
 Leverage automa making and judgi 	•	omes while protecting human decision
Interrogate the up	nderlying data quality in AI mo	odels to ensure fairness and accuracy.
	on of how particular AI technor for students; and,	ologies, like ChatGPT, may increase or
balances and lim	iting any AI systems and tools	ncluding providing for human checks and s that undermine equity ificial Intelligence and Future of Teaching and Learning: Insights
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Thank You

For questions or comments, please contact:

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