

Artificial Intelligence (AI) in Education

[Ryan Bahten](#), Director of Information Network Services, DNCOE

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“We face a genuine inflection point in history, one of those moments where the decisions we make in the very near term are going to set the course for the next decades. And with the position we lead the world, the toughest challenges are the greatest opportunities.

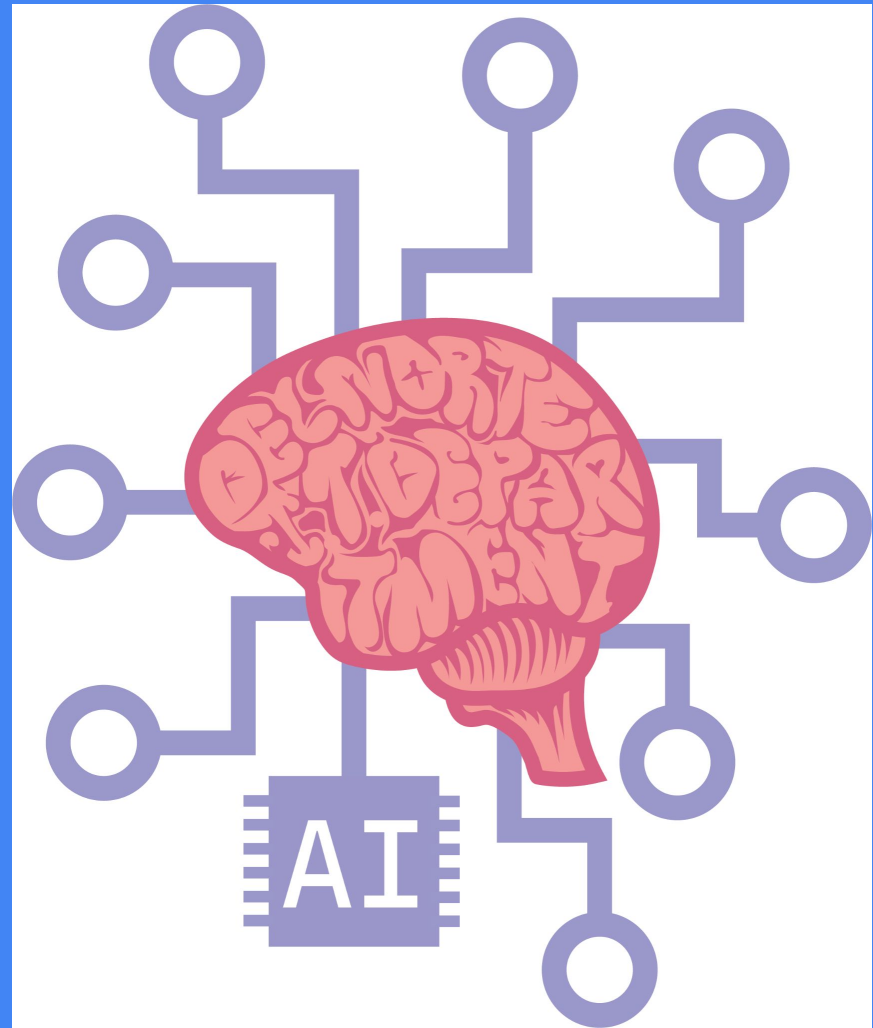
Look, there’s no greater change that I can think of in my life than AI presents as a potential: exploring the universe, fighting climate change, ending cancer as we know it, and so much more.”

-- President Joe Biden

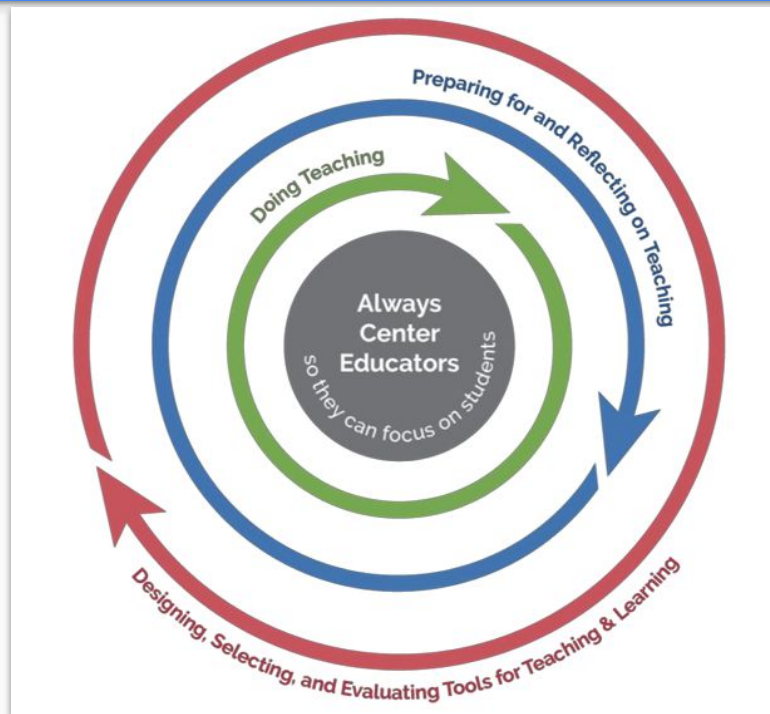
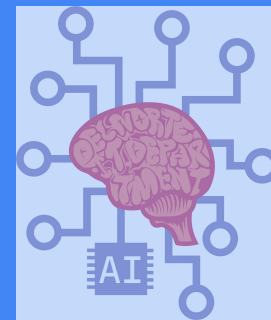
Remarks from 10/30/2023 related to the Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence

GOALS

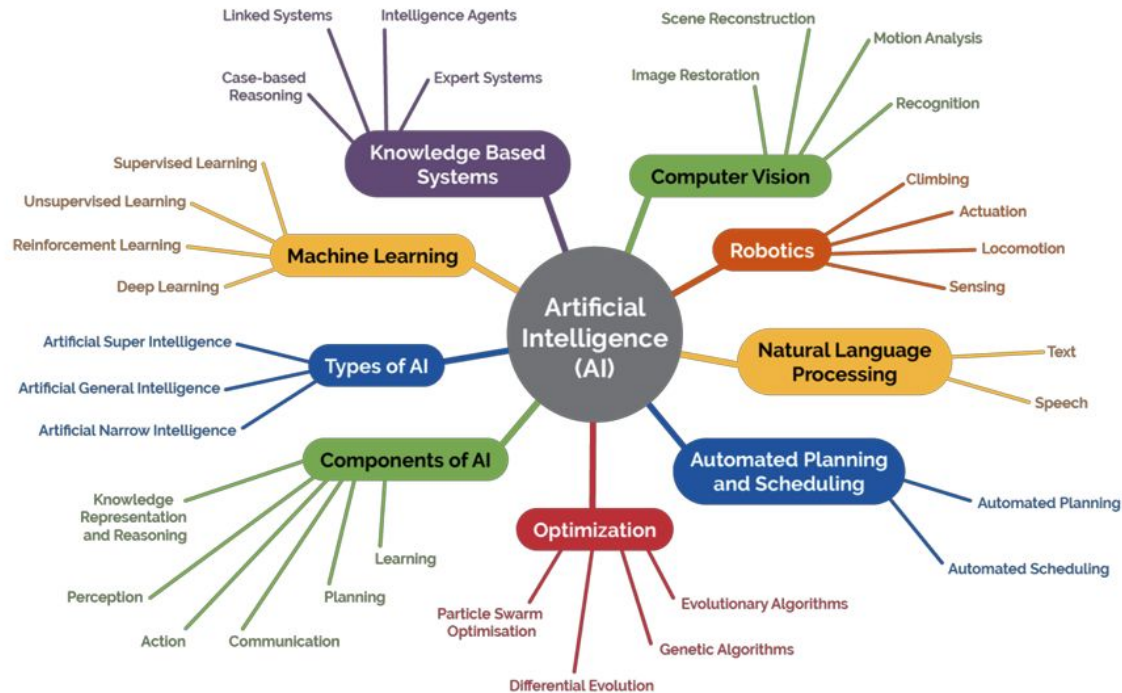
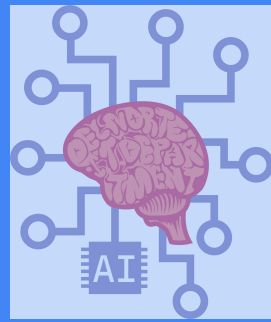
- Common understanding of AI
- AI in K-12 Education
- AI Challenges
- Policy creation around AI
- Questions and Answers



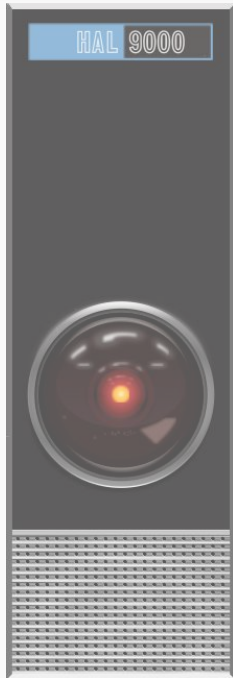
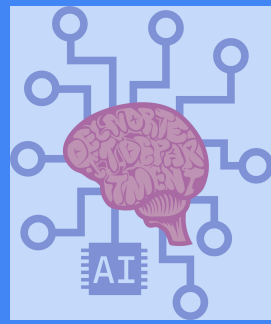
Always Center Educators (ACE) in AI



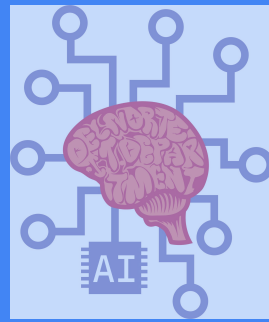
Understanding AI



Understanding AI

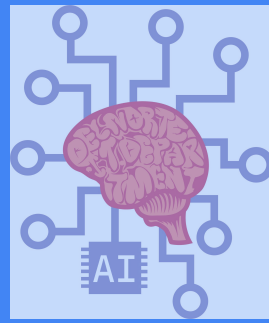


AI Applications in K-12 Education



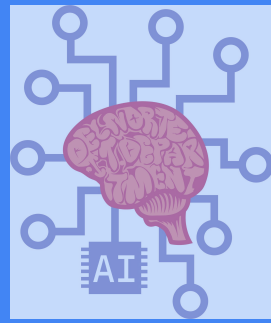
- Adaptive Learning Tools
 - Khan Academy, McGraw-Hill Connect, ALEKS, Duolingo
- Customized Learning Paths
 - i-Ready
- Targeted Intervention and Support
- Constant Feedback Loop
- Scaffolded Learning
- Customized Resources for Students with Special Needs

AI Applications in K-12 Education



- AI Tutors
 - Student progress monitoring
 - Performance alerts
- Time Reduction for Teachers
 - Homework and test grading
 - Lesson plan development
- Smart Data Gathering
 - Leverage machine learning
- Chatbots
 - Data-driven and predictive (conversational)

Challenges and Concerns



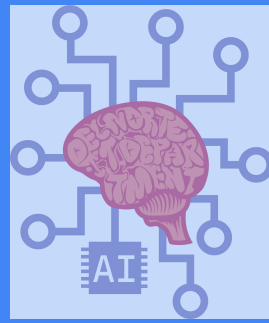
Blog

ChatGPT can now see, hear, and speak

We are beginning to roll out new voice and image capabilities in ChatGPT. They offer a new, more intuitive type of interface by allowing you to have a voice conversation or show ChatGPT what you're talking about.

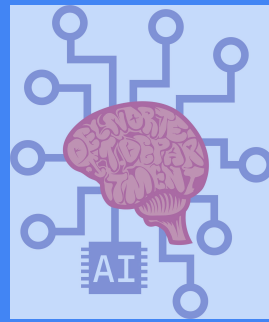


Challenges and Concerns



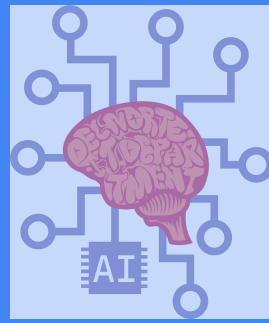
- Ethical Concerns
 - Data collection/Design
- Inaccuracy of Information
 - Proof? Sources?
- Loss of Creativity
 - Or is this an evolution of creativity?
- Unemployment
 - Displacement of human interactions
- Data Privacy
 - FERPA/SOPIPA/COPPA

Creating Policy Around AI



- Remove any broad bans
 - Enforcement is a losing battle
 - Detection tools have their own set of concerns (false positives/negatives)
- Create guidelines to preserve academic integrity
 - Access is available anytime, anywhere to these tools
- Create a policy around privacy and AI use
 - FERPA/COPPA
 - Age-specific policies
- Be aware of potential biases

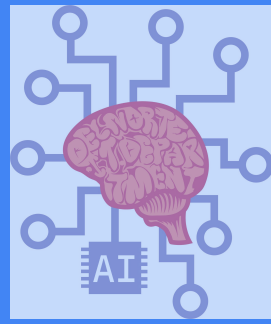
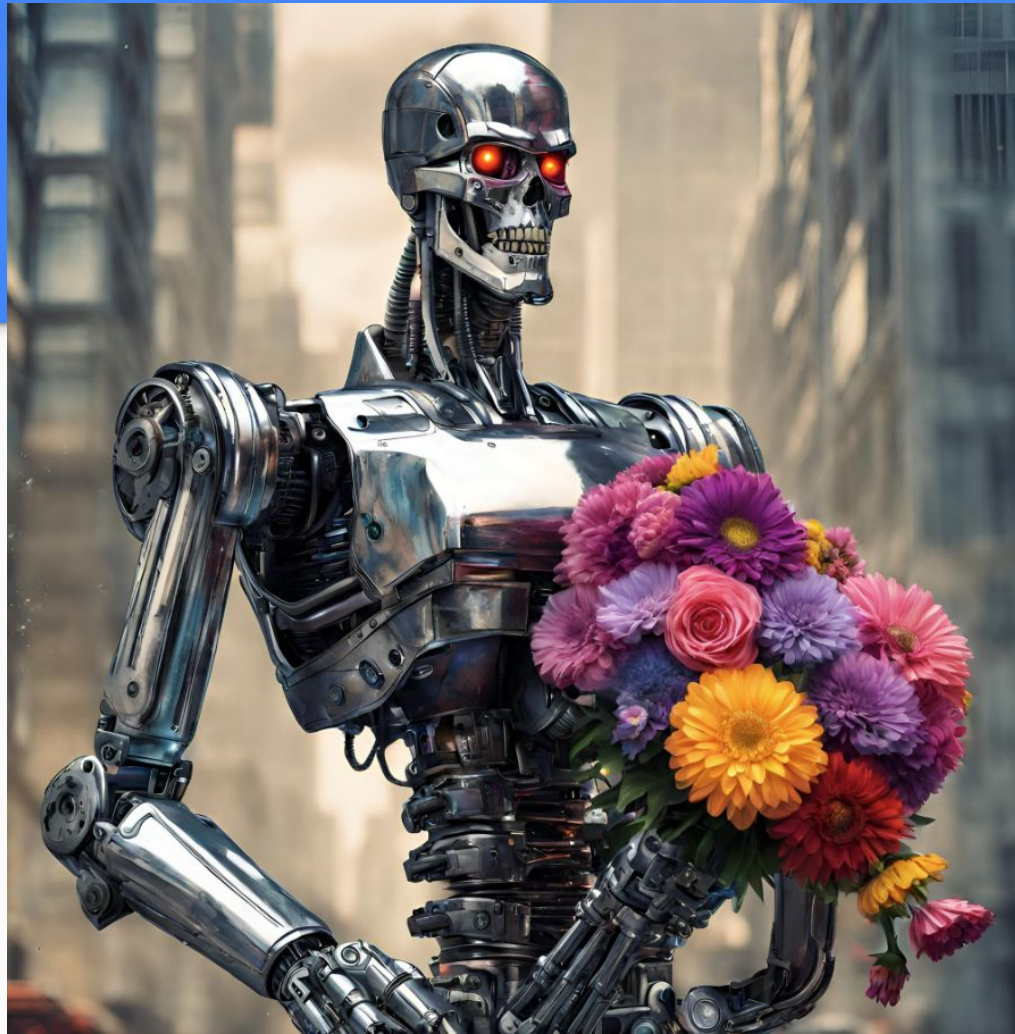
Next Steps for AI in Del Norte

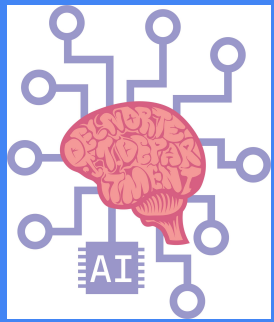


- Leverage Early Adopters
- Facilitate Organizational Learning
 - Professional Development
- Build Del Norte-specific “AI Toolkit”
 - Reference teachai.org [AI Guidance for Schools Toolkit](#)

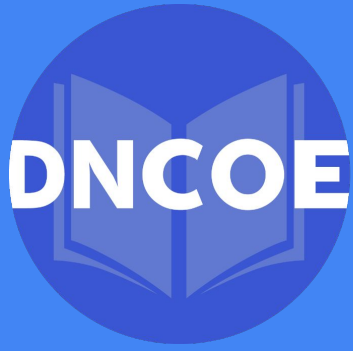
Questions? Answers...

- Thoughts?
- Feelings?
- Ideas?

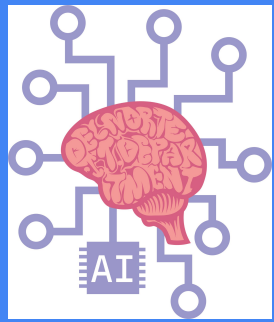




DNCOE



DEL NORTE
COUNTY OFFICE OF EDUCATION



Thank you!

Resource Links

- White House [Fact Sheet](#), [Remarks](#), and [Executive Order](#)
- California [Remarks](#) and [Executive Order](#)
- [CDE AI for Teaching and Learning Padlet](#)
- [US Department of Education AI Recommendations](#)
- [CDE Learning With AI, Learning About AI Resource Page](#)
- [AI4K12.org](#)
- [California Educators Together - AI4CA](#)
- OpenAI - [ChatGPT](#)
- Google - [Bard](#)
- [AI for Education](#)
- Policy Analysis for California Education (PACE): [AI Engagement Strategy](#)
- [TeachAI](#)