



Let's Talk AI & Privacy - How to Get a YES on Your Requested App



Welcome!

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Ask me about Privacy Services at the end!



Today's Syllabus

Information about AI

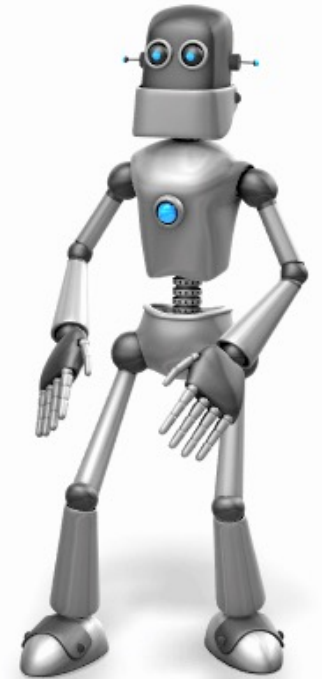
Important factors about AI in the Classroom

Your districts app approval process

Current and potential roadblocks and how to overcome them

Leave the conversation invigorated and excited to share what you have learned; equipped with all the resources discussed to assist in educating fellow district staff. Show off your knowledge on how to use AI responsibly with your students!

Meet A.I.den



Let's have a chat about

AI in the Classroom



If you know the
enemy and know
yourself you need
not fear the results
of a hundred
battles.

- Sun Tzu

Why should we use AI in the Classroom?



Here's why ChatGPT thinks AI should be used in the classroom

AI can be beneficial in the classroom for various purposes such as personalized learning, providing instant feedback, automating administrative tasks, and facilitating interactive learning experiences. However, careful implementation and consideration of ethical concerns are essential to ensure its effectiveness and fairness.

Here's why ChatGPT thinks it shouldn't be used in the classroom

There are some potential concerns about using AI in the classroom that should be considered:

1. Dependence on technology: Overreliance on AI may undermine critical thinking skills and human interaction, leading to a reduction in the development of essential social and emotional skills.
2. Privacy and data security: AI systems often collect and analyze large amounts of student data, raising concerns about privacy breaches and data security if not handled properly.
3. Equity and accessibility: Not all students may have equal access to AI technology, leading to disparities in educational opportunities. Additionally, AI systems may inadvertently perpetuate biases present in their training data, leading to unfair treatment of certain groups of students.
4. Loss of human touch: While AI can automate certain tasks and provide feedback, it cannot fully replace the role of human teachers in providing mentorship, emotional support, and individualized attention to students.

Overall, while AI has the potential to enhance learning experiences, it is crucial to approach its integration into the classroom with caution and consideration of these potential drawbacks.

What you need to know about AI in the Classroom

Potential for both positive and negative consequences.

School districts will need to be vigilant to ensure that they can maximize AI in a positive way, while preventing AI misconduct.

What type of AI system?

Algorithmic Bias & Hallucinations

Asking proper questions.

Citations

Types of AI systems

Artificial Narrow Intelligence (AKA Weak AI)

Artificial General Intelligence (AKA Strong AI)

Super AI

The only type of AI that exists today. It can be trained to perform a single or narrow task.



Narrow AI Types

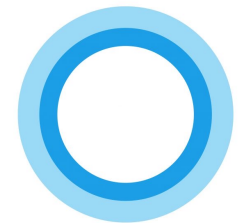
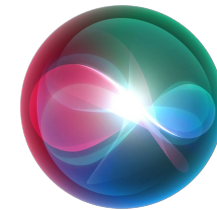
1. Reactive Machine AI

- IBM Deep Blue
- Netflix Recommendation Engine



2. Limited Memory AI

- Generative AI
- Virtual assistants and chatbots
- Self-driving cars



Algorithmic Bias

Algorithmic bias occurs when algorithms make decisions that systematically disadvantage certain groups of people



Hallucinations

Hallucinations: Catch-All phrase for when the AI generates responses that are fabricated, incorrect, or not sufficiently responsive.



Public LLM leaderboard computed using Vectara's Hallucination Evaluation Model.

Model	Hallucination Rate	Factual Consistency Rate	Answer Rate	Average Summary Length (Words)
GPT 4	3.0 %	97.0 %	100.0 %	81.1
GPT 4 Turbo	3.0 %	97.0 %	100.0 %	94.3
Microsoft Orca-2-13b	3.2 %	96.8 %	100.0 %	66.2
GPT 3.5 Turbo	3.5 %	96.5 %	99.6 %	84.1
Cohere Command R	3.9 %	96.1 %	99.9 %	51.2

As of March 13th, 2024

AI Responses

A large language model (LLM) is a type of artificial intelligence (AI) program that can recognize and generate text, among other tasks.

RAG Responses- Responses are augmented with facts, fetched from external sources.

Non-RAG Responses- Responses rely on internal memory only.

Long-form Text Generation: Extensive and coherent narratives, reports, articles, essay, stories.



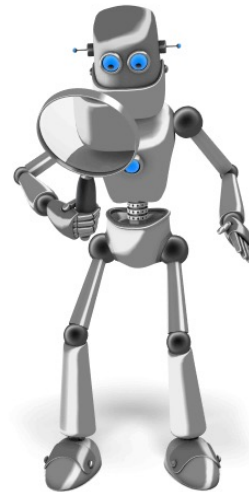
Nine Rules When Asking AI Questions

1. Verify responses with outside sources.
2. Do not use slang or idiomatic expressions.
3. Limit Outcomes of Choices (“yes or no”).
4. Pack in relevant data and sources unique to you.
5. Create a data template for the AI to follow.
6. “Ground” the GPT by giving it a role. Flattery doesn’t hurt. “You are the World’s greatest historian.”
7. Tell it what you want and don’t want.
8. “Lower the Temperature” within the AI.
9. Don’t use a hostile tone or try to “trap” the AI in semantic trickery.



Citing AI Resources

- Cite a generative AI tool whenever you paraphrase, quote, or incorporate into your own work any content (whether text, image, data, or other) that was created by it
- Acknowledge all functional uses of the tool (like editing your prose or translating words) in a note, your text, or another suitable location
- Take care to vet the secondary sources it cites



Citing AI Resources

LK Describe the symbolism of the green light in the book *The Great Gatsby* by F. Scott Fitzgerald.



In the novel *The Great Gatsby*, the green light represents various symbolic meanings, including:



1. **Hope and Promise:** The green light is first seen at the end of Daisy's dock across the water from Gatsby's mansion. For Gatsby, the green light symbolizes his hopes and dreams of being reunited with Daisy and winning her back.
2. **Illusion and Deception:** The green light also symbolizes the illusory nature of the American Dream and Gatsby's belief that he can attain it by acquiring wealth and social status. The green light represents the idea that achieving the Dream is like chasing a mirage or a ghost, something that always remains just out of reach.
3. **Money and Materialism:** The green light also represents the materialistic values of the wealthy characters in the novel. For example, the green light serves as a reminder of the wealth and privilege that Daisy and her social circle enjoy, and that Gatsby is striving to attain.
4. **Envy and Jealousy:** The green light also symbolizes Gatsby's envy and jealousy of Tom Buchanan, Daisy's husband, who represents the established wealthy class that Gatsby is trying to break into.

Overall, the green light in *The Great Gatsby* is a powerful symbol that conveys the themes of hope, illusion, materialism, and envy that run throughout the novel. It serves as a reminder that the American Dream is often an elusive and unattainable goal, and that wealth and status do not necessarily bring happiness or fulfillment.

*"Describe the symbolism of the green light in the book *The Great Gatsby* by F. Scott Fitzgerald" prompt. ChatGPT, 13 Feb. version, OpenAI, 8 Mar. 2023, chat.openai.com/chat.*

Spotting AI Submissions

- The Submission is Too Long
- The Answer Misses The Mark While Also Being Too Long
- AI Writing is Emotionless Even When Describing Emotions
- Excessive Use of Lists and Bullet Points
- It's Mistake-Free
- The Writing Doesn't Match The Student's Other Work
- Something Is Just . . . Off



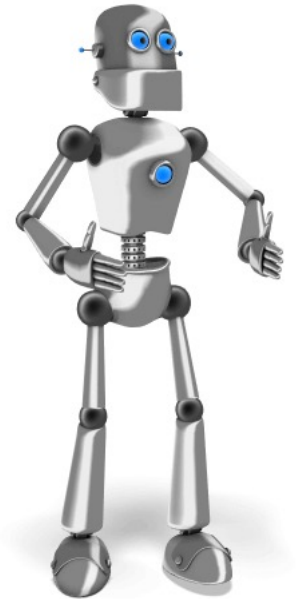
Other Considerations for AI in the Classroom

Notice: Is district notified of updates to terms and conditions that could include use of AI? (AI may exceed the scope of what district originally agreed to.)

Parental Consent: Does collection of student data in AI now require parental consent for use of software?

Protection of PII: Teachers and students should be trained not to include any PII in a generative open AI tool.

Threat Monitoring: How does the software monitor and respond to any threats to self or others that may be entered into an AI chatbot by a student?



Your Request Process

What is your app approval process?



ROADMAP FOR DATA PRIVACY COMPLIANCE

In a K-12 environment



DISCUSS STUDENT PRIVACY WITH YOUR ADMINS AND BOARD

What laws are you governed by? Are you in compliance?



DEVELOP YOUR DISTRICT'S PLAN FOR COMPLIANCE

Develop your district's team and build your detailed plan.



SELECT TEAM

Who will make up your team to develop and implement the plan (District Admins, Principals, Teachers, Trainers, Curriculum and Technology Staff)



GATHER AN INVENTORY OF RESOURCES BEING USED

Build a list of all the resources being used within your district.



SEARCH FOR HELPFUL TOOLS

Many tools are available from other districts and entities who have completed the process



CONTACT PROVIDER'S TO SIGN DATA PRIVACY AGREEMENTS

California law requires contracts to be signed for each vendor you are sharing student data with



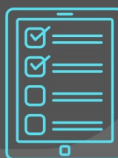
SHARE THE DISTRICT'S PLAN WITH STAFF

Once you have developed your process and built your inventory, you'll want to train your staff on the process.



CREATE TRAININGS

Your staff will need to be trained on the protocols you will develop

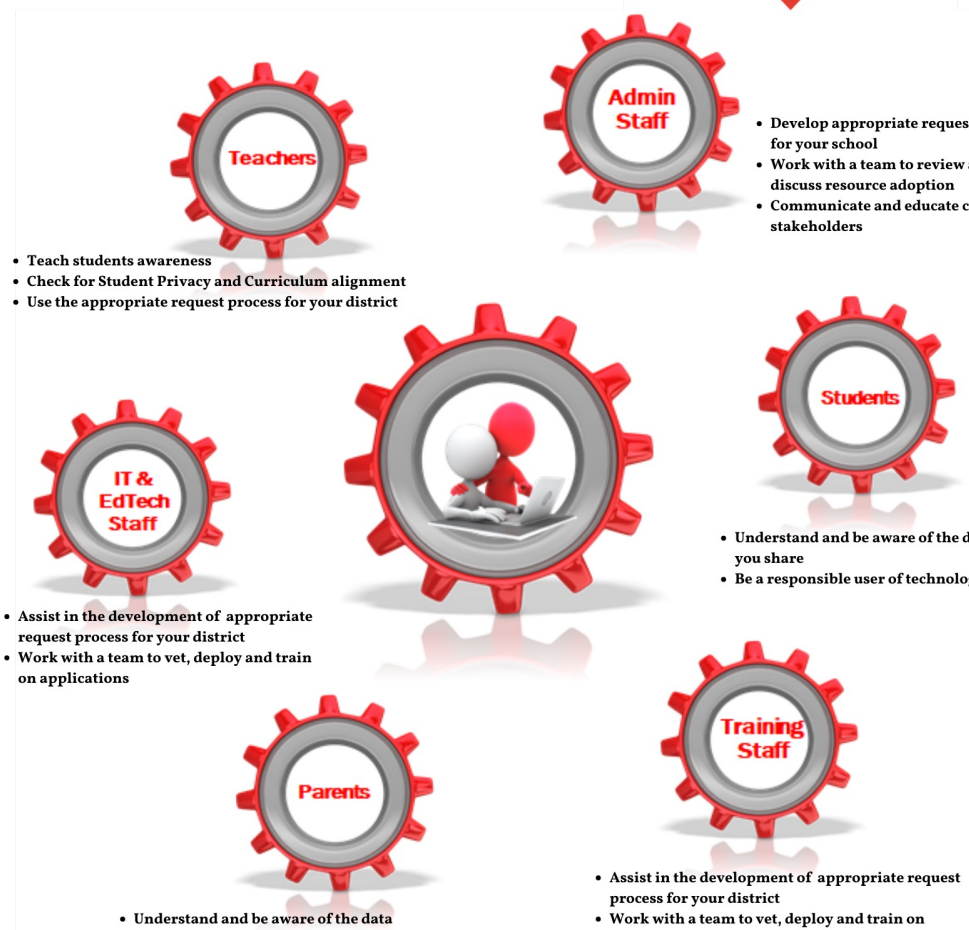


KEEP TRACK OF THE STATUS OF YOUR RESOURCES

Resource requests will continue to come in and some Provider's may take longer to sign than others. Be sure to keep track of the status of the DPAs.

Whose role is it anyway?

Just like all successful Student Outcomes, everyone has a role in keeping Student Data safe

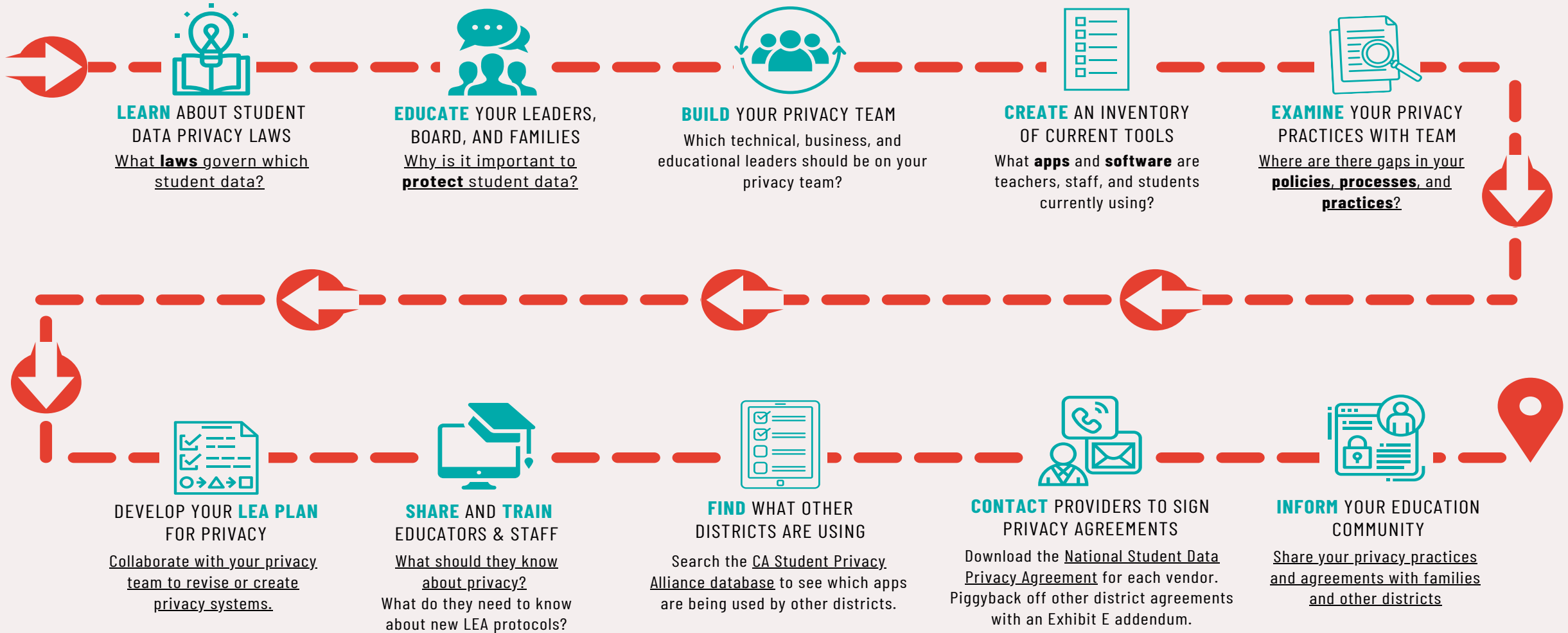


IDEAL SCENARIO

- **Teacher** finds apps they want to use
- **Education/Curriculum Department** vets the app for curriculum alignment and appropriateness
- **Technology Department** reviews the application for specification demands and alignment Technology
- **Business Department** reviews terms and contracts
- **Education Board** approves

STUDENT DATA PRIVACY ROADMAP

A tool to guide local educational agencies on their journey to student data privacy compliance.



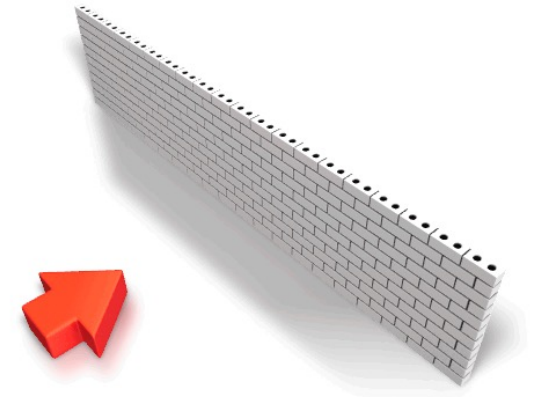
Questions to Include in a Technology RFP

1. Has your product/services been rated for Hallucinations?_____
2. If the answer to the foregoing question is "yes" What system has provided you with a rating? (e.g. Galileo) What was your score?_____
3. Does your services provide materials or training to reduce Hallucinations? If the answer is yes, please describe below.

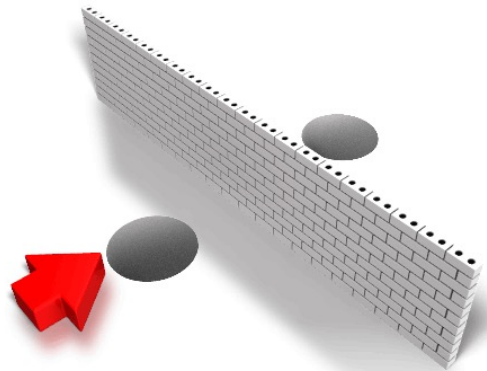
4. Does your Service include an ongoing monitoring system to correct Hallucinations?_____
5. If the answer to the foregoing question is "yes", please identify the service (e.g. Halluminate, Aporia) _____

Break Past the Roadblocks!

It could feel that district personnel are standing in your way of utilizing resources you need to teach how you want to teach



Know the “No” : Understanding why a resource may not be approved can help you be more successful when requesting and while searching for alternatives

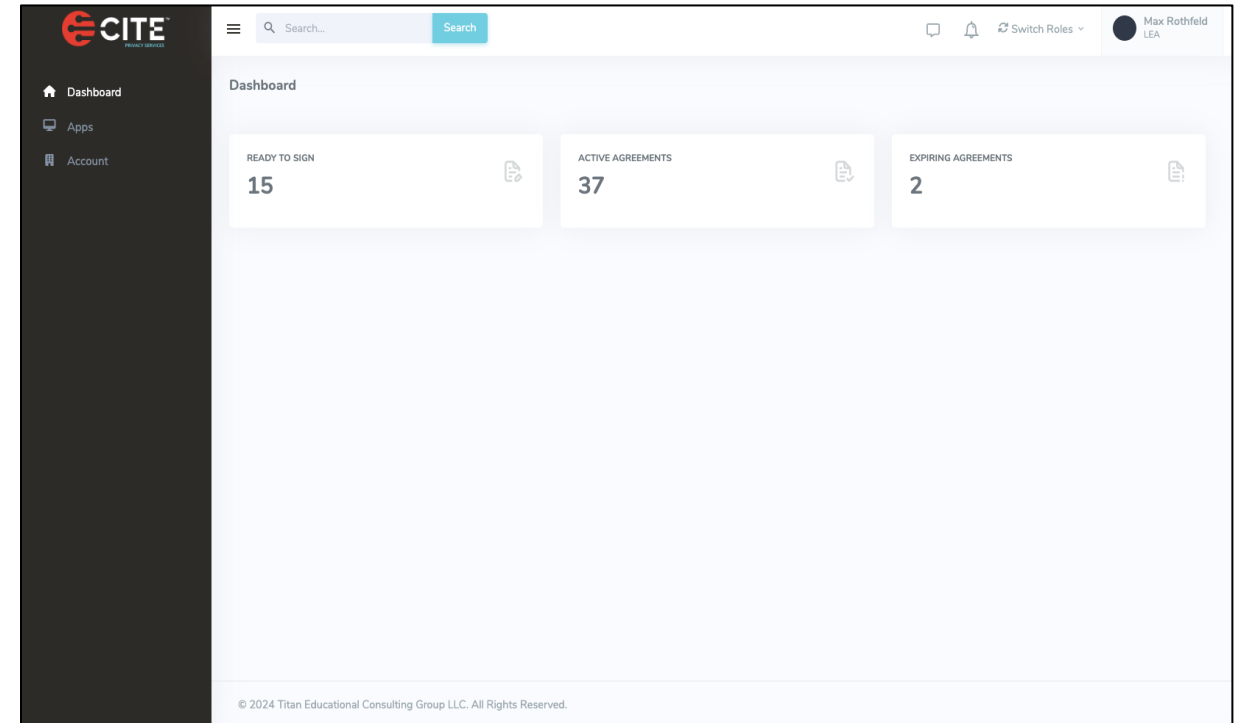


Privacy Services!

Privacy Services

CITE's comprehensive DPA management & negotiation service

- Dedicated Technician (like me!)
- You request – We do the rest
- Maintain and manage your DPAs
- Negotiate with no added legal fees



Acknowledgements

Big Thank You to



F3 Law

Other Sources Used:

IBM

Amazon Web Services

California Department of Education

Techlearning.com

Stanford University

Vectara

ChatGPT

The Art of War by Sun Tzu

MLA Style Center



Thanks for Coming!

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