



2024-2025 ANNUAL HSHT CONFERENCE

AI's Impact on Education

Presented by: Marlee Strawn

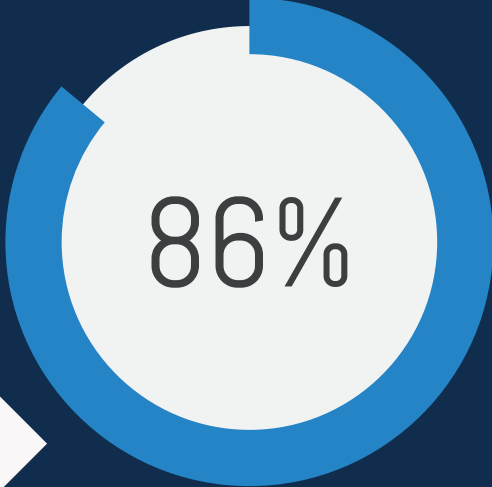
INTRODUCTION



Marlee Strawn

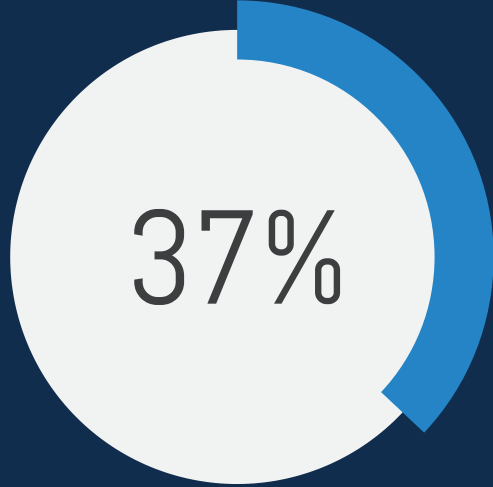
- Former teacher, principal, and now the Co-Founder and Head of Education at Scholar Education
- Scholar Education is an AI-powered platform that offers a suite of AI tools designed to streamline lesson planning and deliver a personalized learning, with a special focus on helping teachers implement and track student accommodations
- 24-25 Partnership with Able Trust

AI ADOPTION GAP

A circular gauge with a blue border and a white center, showing 86% of the circle filled with blue. The percentage '86%' is written in the center.

86%

of students reported using AI in their studies in a recent survey.

A circular gauge with a blue border and a white center, showing 37% of the circle filled with blue. The percentage '37%' is written in the center.

37%

of k-12 teachers have used AI to generate ideas for classes.

A circular gauge with a blue border and a white center, showing 40% of the circle filled with blue. The percentage '40%' is written in the center.

40%

of U.S. population ages 18-64 used generative AI to some degree

DEFINING GENERATIVE AI

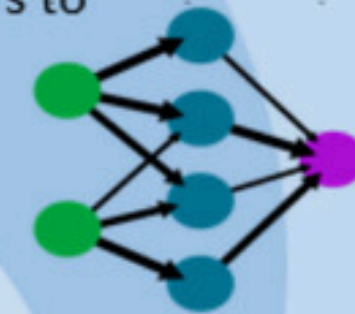
Expert System AI
Programmers teach AI exactly how to solve specific problems by providing precise instructions and steps.

Artificial Intelligence
The theory and methods to build machines that think and act like humans.



Machine Learning
The ability for computers to learn from experience or data without human programming.

Deep Learning
Mimics the human brain using artificial neural networks such as **transformers** to allow computers to perform complex tasks.



Generative AI
Generates new text, audio, images, video or code based on content it has been **pre-trained** on.



ChatGPT Midjourney Bard

LLMS & HOW THEY WORK

Generative AI

Generative AI tools utilize Large Language Models (LLMs) to understand and generate human-like text by learning patterns from extensive datasets (ex: ChatGPT)

Tokens

A small unit that can easily be understood by a large language model.

Words	Tokens
Everyday	[Every, day]
Joyful	[Joy, ful]
I'd like	[I, 'd, like]

LLM Prediction

Large Language Models are trained on vast amounts of text data, encompassing nearly the entire internet. They process input tokens and generate output tokens based on statistical predictions.

HOW TO USE LLM'S

“

Prompt engineering is **carefully crafting an input** to receive the **best output generated**. What all do you need to include?
Remember the acronym...



”



BREED

Identify the **role** you need to take on, just like selecting the right dog breed for a task.



AIM

Clearly state your **objective**, like a dog zeroing in on its goal.



RECIPIENTS

Specify your **audience**, just like a dog knowing its pack.



KEYWORDS

Choose important **keywords** to guide the style, tone, or other parameters, similar to commands a well-trained dog understands.



STRUCTURE

Determine the **structure** of the output, like training a dog to follow specific routines.

PROMPT ENGINEERING

Effective Prompting for Educators

AI for Education

OK

"A lesson plan about multiplying fractions for 5th graders"

BETTER

"Act as an expert mathematician and a teacher skilled in designing engaging learning experiences for upper elementary students. Design a lesson plan about multiplying fractions for 5th grade students."

BEST

"You are an expert mathematician and teacher skilled in Universal Design for Learning. Design an accessible lesson plan about multiplying fractions for 5th grade students interested in soccer. The lesson should include a hands-on activity and frequent opportunities for collaboration. Format your response in a table."

Less Effective

More Effective



BREED

You are an expert mathematician and teacher skilled in Universal Design for Learning.



AIM

Design an accessible lesson plan about multiplying fractions



RECIPIENTS

for 5th grade students interested in soccer.



KEYWORDS

The lesson should include a hands-on activity and frequent opportunities for collaboration.



STRUCTURE

Format your response in a table.

You are an expert mathematician and teacher skilled in Universal Design for Learning. Design an accessible lesson plan about multiplying fractions for 5th grade students interested in soccer. The lesson should include a hands-on activity and frequent opportunities for collaboration. Format your response in a table.

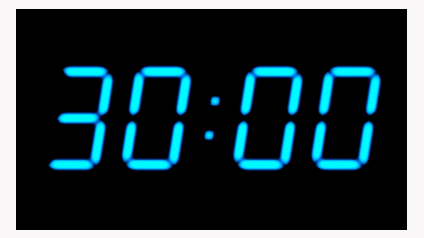
Here's a Universal Design for Learning (UDL) lesson plan on multiplying fractions for 5th-grade students with an interest in soccer.

Lesson Plan: Multiplying Fractions - Soccer Style!

| Lesson Component | Details

Message ChatGPT

ChatGPT can make mistakes. Check important info.



WHERE TEACHERS' TIME GOES

PLANNING

Teachers are spending **4+ hours** creating **assessments**.

Teachers are spending **6+ hours** a week **grading & giving feedback**.

Teachers are spending **4+ hours** a week **planning lessons**.

TEACHING

Teachers are spending **4+ hours** implementing **accommodations**.

Teachers are using **6+ different tech tools daily**.

Teachers are spending up to **3 hours tutoring** students after school.

REFLECTING

Teachers are spending **15+ hours** a week on administrative tasks outside of teaching.

Teachers are spending **6+ hours** a week **tracking & reporting accommodations**.

Teachers are spending **6+ hours** a week **making data-informed decisions**.

5 EASY PROMPTS TO SAVE TIME

Parent Emails

You are a school-family liaison. Write a professional but empathetic email to parents about a 7th-grade student struggling with completing homework on time. Include actionable suggestions and an offer for collaboration.

Grading

You are a writing coach. Generate personalized feedback for a 10th-grade student's essay on the causes of the Civil War, focusing on thesis clarity and use of evidence.

Feedback

You are a writing coach. Generate personalized feedback for a 10th-grade student's essay on the causes of the Civil War, focusing on thesis clarity and use of evidence.

Assessments

You are an expert assessment designer. Create a 7th-grade history quiz on the American Revolution. Include 10 multiple-choice questions, clear instructions, and an answer key, tied to Florida State Standards

ESE Tracking

You are an expert in special education compliance. Provide a checklist for tracking accommodations for a student with ADHD, including strategies for extended time and frequent breaks.

WHAT TEACHERS ARE SAYING

PLANNING

Teachers are saving an average of **3–4 hours** per week on lesson planning.

TEACHING

Teachers are saving an average of **3 hours** per week on implementing accommodations

REFLECTING

Teachers are saving an average of **2 hours** per week on grading and providing feedback

Teachers are saving an average of **7–8 hours** per week on administrative tasks

Security Considerations when using open-source AI

When using open-source AI tools in the classroom, it's crucial to protect your students' privacy and data security.

1. **Avoid Inputting Sensitive Information:** Never share student records, grades, or personal details when using AI tools to protect privacy.
2. **Remove Identifying Information:** If you need to use student data, ensure names, addresses, and other identifiers are removed before inputting it into any AI system.
3. **Stay FERPA-Compliant:** Always follow school policies and privacy laws like FERPA to keep student data safe while using open-source AI
4. **Bias in Data:** AI models are trained on extensive datasets, which can sometimes include societal biases related to race, gender, or socioeconomic status.



STUDENT CONSIDERATIONS

The biggest concern with AI isn't its potential—it's how students might misuse it.

Three Actionable Points:

- 1. Rethink Assessments:** Move beyond recall-based tasks to authentic, project-based evaluations.
- 2. Teach AI Literacy:** Equip students with skills to use AI ethically and responsibly.
- 3. Focus on Process:** Assess how students arrive at answers, not just the final product.

How can we prepare students to engage with AI as a tool, not a shortcut?

EMPOWERING STUDENTS WITH AI

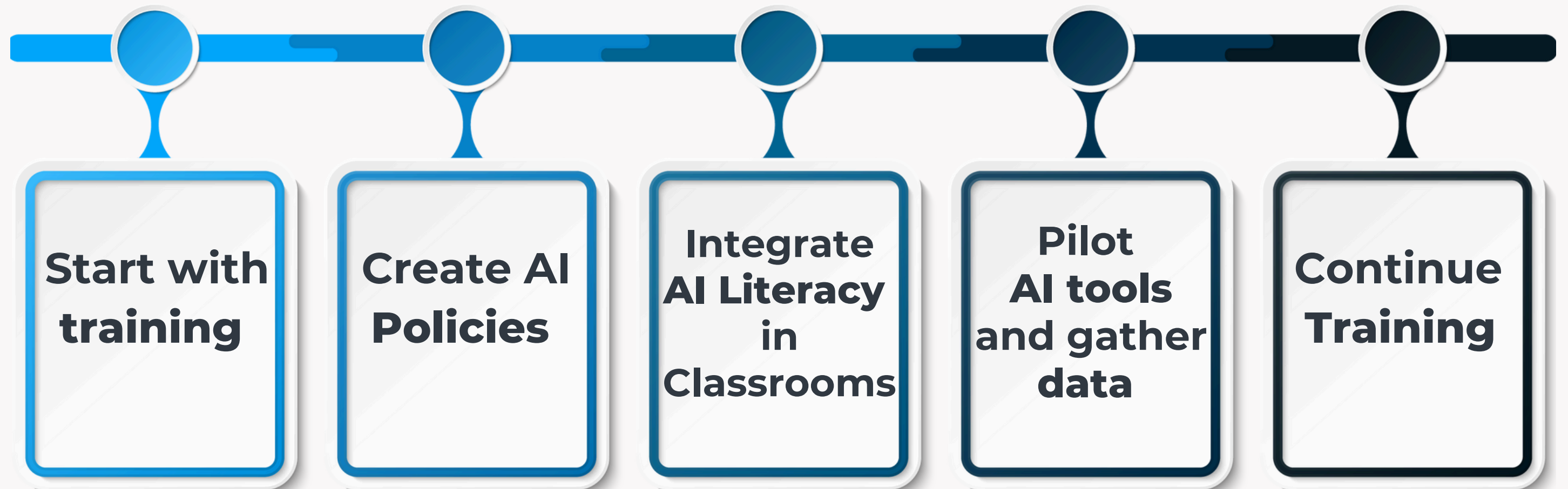
AI isn't just a tool for teachers—it's a powerful ally for students.

Three Key Benefits :

1. **Personalized Support:** Tailored explanations and practice for individual learning needs.
2. **Confidence Building:** Immediate feedback in a judgment-free environment encourages asking questions.
3. **Skill Development:** Enhances critical thinking, research skills, and responsible technology use.

When used well, AI doesn't replace the student's effort—it amplifies their potential.

WHERE DO YOU GO FROM HERE?



LET'S STAY CONNECTED

Contact Info:

Marlee Strawn

Head of Education & Co-Founder

 Marlee@JoinScholar.com

 813-504-6903



- Explore our FREE AI Certification Course for Educators to deepen your understanding of AI in education- **JoinScholar.com**
- **Coming Soon:** A Free Student AI Certification Course to empower learners in using AI responsibly.
- Expansion of our pilot next school year
- We're here to support your journey with AI and help you navigate the next steps in integrating it effectively into your classroom.