


# AI in Education: Enhancing Outcomes and Efficiency

AI is not just a tool of the future, but one that's already making an impact in education.

 by Dr. Grady Batchelor

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# Where We Are with AI: 5 Levels of AI



## Chatbots

Basic conversation and interaction.



## Reasoners

Analyze data and provide insights.



## Agents

Automate tasks and processes.



## Innovators

Develop new solutions and ideas.



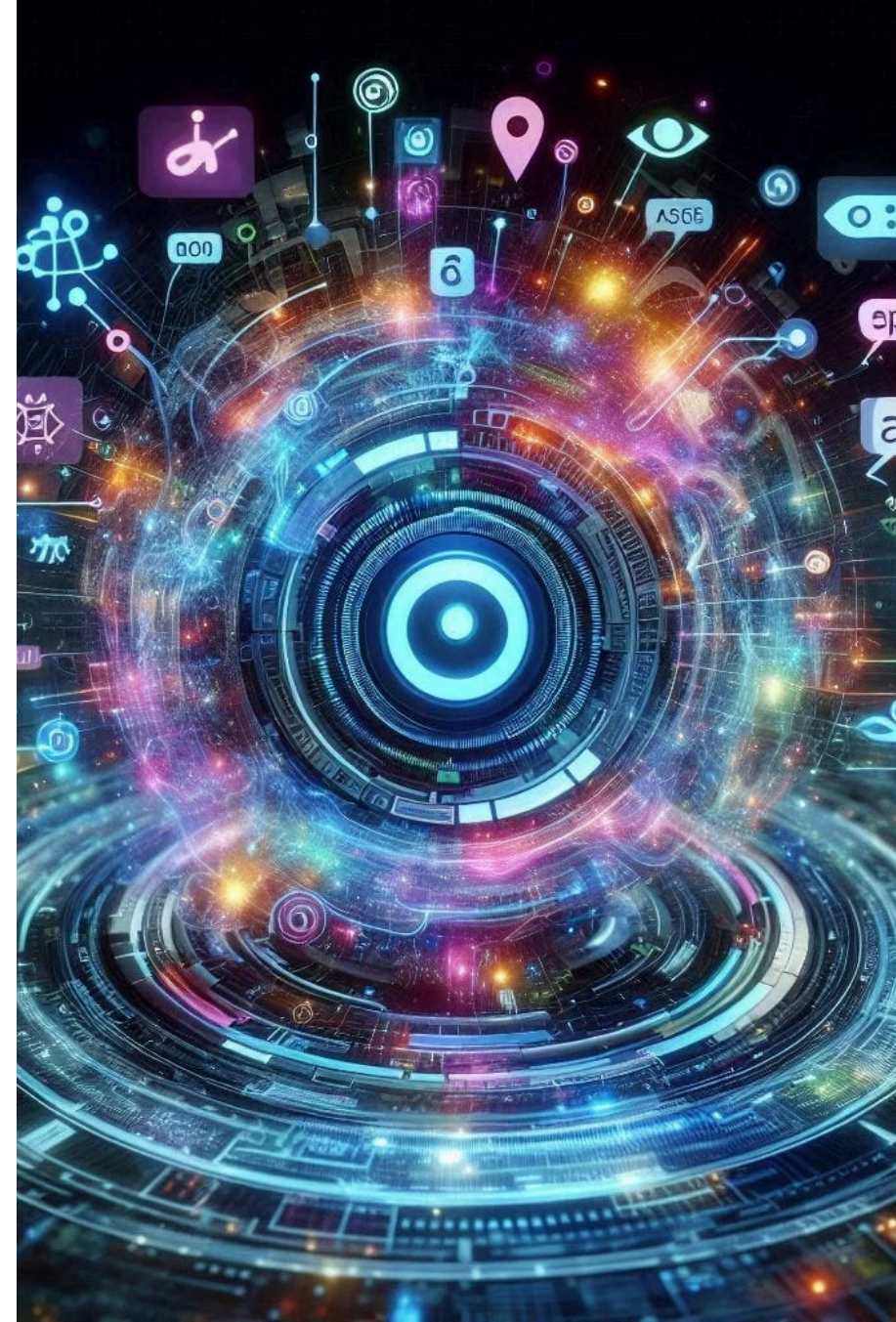
## Organizations

Run entire organizations independently.

# Chatbots and Reasoners in Education (Levels 1 and 2)

Level 1: Chatbots - Natural conversation abilities.

Level 2: Reasoners - Problem-solving across broad topics.



# Prompt for Creating Prompts

"I need a prompt to help me create a lesson plan for any topic. Please provide a prompt that captures the various parts of a lesson plan, including the lesson title, lesson description, learning objectives, instructions, and other appropriate details. Ensure the prompt allows for creating lesson plans on any topic by using [INSERT TOPIC] in the prompt."



# Prompt for Creating a Lesson Plan

"Create a detailed lesson plan for a lesson on **[INSERT TOPIC]**. Structure the plan to include the following components:

1. **Lesson Title:** Provide a clear, engaging title for the lesson.
2. **Lesson Description:** Write a brief overview of the lesson, explaining what students will learn and why it's important. Mention any context or background information relevant to understanding the topic.
3. **Learning Objectives:** List specific, measurable objectives that outline what students will know, understand, or be able to do by the end of the lesson. Use action verbs (e.g., identify, analyze, create, evaluate).
4. **Materials Needed:** Identify all materials, tools, or resources required for the lesson, including technology or handouts.
5. **Lesson Outline:**
  - **Introduction (5-10 mins):** Describe how you will introduce the topic, capture students' attention, and activate prior knowledge.
  - **Instruction (15-30 mins):** Outline step-by-step instructions, key concepts, and examples to guide students through the core content. Include notes on instructional methods (e.g., lecture, discussion, group work).
  - **Activities/Practice (15-20 mins):** Describe any activities or exercises that reinforce the lesson content, allowing students to apply what they've learned.
  - **Assessment (5-10 mins):** Specify a formative or summative assessment method to evaluate student understanding (e.g., quiz, reflection, project).
6. **Differentiation:** Suggest strategies to adapt the lesson for diverse learning needs and levels.
7. **Closure:** Describe how you will conclude the lesson, summarize key points, and connect to future lessons or real-life applications.
8. **Reflection/Evaluation:** Include questions or prompts for self-evaluation and improvement of the lesson plan.

Please ensure each section is clear and concise, providing educators with a well-structured and adaptable lesson plan for **[INSERT TOPIC]**."

# Agents and Innovators in Education (Levels 3 and 4)



## Level 3: Agents

Take actions independently.



## Level 4: Innovators

Assist with new ideas and knowledge creation.

# AI Organizations (Level 5)

AI systems capable of independently running operations.

Potential for AI to fully manage educational institutions.

AI system manages administrative tasks and tailors learning paths.



# Current Applications of AI in Education

## Personalized Learning Paths

AI creates personalized learning paths for students.

## Data-Driven Insights

AI-powered data helps teachers pinpoint learning gaps.

## Efficient Administrative Support

AI automates administrative tasks for educators.





# Responsible AI Use – Ethics and SOPs

## 1 Privacy

Protect personal information.

## 2 Transparency

Ensure clear understanding of AI processes.

## 3 Bias Mitigation

Reduce unfair or discriminatory outcomes.

**Prompt:** "Please provide me with an SOP to help guide ethical decision-making, protect personal information, ensure transparency and a clear understanding of AI processes, and mitigate risk by reducing unfair or discriminatory practices and outcomes. This will build trust with students, parents, and educators. Additionally, prompts will be provided to facilitate completing each step of the SOP."



# Prompt Engineering and the CREATE Model and AI

1

## Iterative Prompt Engineering

Crafting effective AI interactions.

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2

## CREATE Model -Context, Result, Explanation, Audience, Tone, Expand

Steps for optimizing AI prompts.

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3

## AI As Your Prompt Engineer

Leverage AI to create highly effective prompts.

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4

## Refining Prompts

Enable AI to respond to teaching goals.

# Three Future Scenarios of AI in the Public Sector

## AI-Empowered Public Sector

AI fully integrated into public education.



## Ethical AI Education

Balanced use of AI, teaching ethical use.

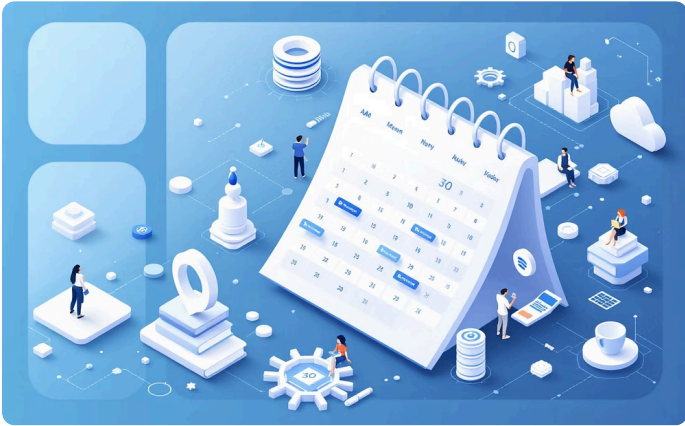


## Restricted AI Usage and Innovation Decline

Over-regulation stifles innovation, especially in the U.S.



# Invitation to Transform: 30-Day Challenge



## 30 Days to AI Mastery

Practical AI applications for educators.



## Hands-on Approach

New prompt, knowledge, skills and/or abilities each day.



## Witnessing Impact

Incorporating AI and seeing results.

Join Us Now: [30-Day AI in Education Challenge: Mastering AI in Education: Go from Zero to Pro](#)



# Mastering AI in Your Role: The AI Black Belt Workshop Series

## 1 Certification Levels

- **Grey Belt:** Introduction to AI in education and creating an AI role plan
- **White Belt:** Deep dive into AI capabilities for student engagement
- **Yellow Belt:** Prompt engineering for effective content delivery and problem-solving
- **Green Belt:** Building AI tools for automation and efficiency
- **Blue Belt:** Creating AI-driven solutions tailored to classroom needs
- **Purple Belt:** Exploring future trends in educational AI
- **Brown Belt:** Working with AI agents to support school administration
- **Black Belt:** Advanced automation and strategic modeling for educational transformation

## 2 Mastery Objective

Achieve role-specific mastery using AI applications for education, healthcare, government, business, etc.

Start with basics and build up to AI-driven automation and strategic modeling.

Check it out: <https://leadingwithai.com/ai-black-belt-training>

# What's Your Role in Shaping AI in Education?

Get Started: Join the 30-Day Challenge and consider the AI Black Belt Workshop!

Join Us Now: [30-Day AI in Education Challenge: Mastering AI in Education: Go from Zero to Pro](#)



# Thank you!

Dr. Grady Batchelor

[grady@leadingwithai.com](mailto:grady@leadingwithai.com)

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<http://drgrady.info/>

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