Rodger Bishop, Clemson Libraries

## AI-Enhanced Education

Fostering Creativity, Efficiency, and Future-ready Skills





Teaching Excellence Conference 2024:

Teaching in the Age of Al | January 9, 2024



## Rodger Bishop

**Instructional Designer** 

Pronouns: he/him/his



## **Learning Objectives**

## ENHANCING CREATIVITY IN ASSIGNMENTS WITH AI

Participants will gain insights into leveraging AI to design assignments that not only challenge students creatively but also streamline the grading process, freeing up valuable instructor time.

## BUILDING FUTURE-READY STUDENTS THROUGH AI SKILLS

Attendees will discover
effective methods for
incorporating AI skills into the
curriculum, ensuring that
students graduate with the
knowledge and capabilities
necessary to thrive in an
AI-driven world.

#### REDEFINING STUDENT PROJECTS FOR INTERDISCIPLINARY COLLABORATION

Through real-world examples and case studies, participants will learn how to redefine student projects across disciplines, fostering interdisciplinary collaboration and deepening students' understanding of Al applications in creative endeavors.

# **ENHANCING CREATIVITY** IN ASSIGNMENTS WITH AL

#### **Generative AI for Idea Generation**



#### You

Write a paragraph on the elements of a good love poem



#### **ChatGPT**

A good love poem weaves a tapestry of emotions, skillfully blending vivid imagery, evocative language, and rhythmic cadence. It begins with a captivating introduction that sets the tone, drawing the reader into the emotional landscape of love. The use of metaphor and symbolism enhances the depth of connection, transforming simple words into profound expressions of affection. Meter and rhyme, when employed harmoniously, create a musicality that resonates with the heartbeat of love. The poem should unfold like a story, progressing with a natural flow that mirrors the journey of love itself. A balance of sensuality and sentimentality adds layers to the poem, capturing the nuances of romantic experience. Ultimately, a good love poem leaves an indelible mark on the reader's heart, evoking the timeless essence of love in all its beauty and complexity.









## "Create a..."

"Create a . . ." followed by a type of document is among the most useful and most popular prompts, along with "Write a...," an equally viable alternative. Simply type "Create a" and then add whatever AI writing tasks you need (e.g., "Create a TikTok video script using the side-eye trend" or "Create a love poem about flowers").

#### **Generative AI for Idea Generation**



#### You

Act as a cranky person describing their favorite Al tool



Oh, this blasted Al tool of mine! Don't get me started on the so-called "convenience" it brings. It thinks it knows everything, but half the time, it's just spewing out information like a broken record. And don't even get me started on its overly polite responses - I don't need my technology to be all sugary and sweet. The interface is a headache to navigate, and it's always suggesting things I couldn't care less about. I'd rather deal with a good old-fashioned dictionary and a pen, none of this fancy digital mumbojumbo. It's like having a know-it-all roommate who never shuts up. But, I grudgingly admit, when I need a quick answer or some writing assistance, it begrudgingly does come in handy. Just don't expect me to say it with a smile!







## "Act as a..."

Many Al writing assistants can imitate different professions and mindsets, such as those of a marketer, lawyer, or even therapist. This can be a big help for specific tasks; for example, if you want it to generate an ad, you'll get better results if you type "Act as an advertiser . . ." before the rest of the prompt. You can even use this to have a little fun, such as by asking the AI to "act as a cranky person."

### **Generative AI for Idea Generation**

You

Mimic this style to write an ad for toothpaste, but keep it short: Oh, this blasted Al tool of mine! Don't get me started on the so-called "convenience" it brings. It thinks it knows everything, but half the time, it's just spewing out information like a broken record.

#### ChatGPT

Ugh, toothpaste - the supposed hero of dental hygiene. Always claiming to know it all, promising minty freshness that's more of a broken record than anything else. But, fine, when your mouth needs a quick rescue from the chaos of daily life, this toothpaste grudgingly gets the job done. Just don't expect me to throw a parade for it. It's there when you need it, like an annoyingly helpful sidekick.







## "Mimic this style..."

Al writing assistants have a pretty neutral writing style, but what if you want something passionate, excessively formal, or child-friendly? Using the "Mimic this style . . ." prompt, you can paste a sample text from the style you want, and the AI will compose whatever you want in that style. You can even use your own writing to have the Al generate text in your own personal style.

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## AI-Enhanced Visual Arts Projects: a Case Study

Objective

Al Tool

Generation

Output

Collaborate

Emily, a visual artist, aimed to infuse her traditional paintings with fresh ideas.

Objective: Experiment with Al-generated abstract patterns. Chose Google's DeepDream for its ability to create surreal and abstract images.

DeepDream's neural network algorithm aligned with Emily's goal. Used DeepDream to transform a serene forest image into a kaleidoscope of colors and shapes.

Al output represented an abstract interpretation of nature.

Prepared canvas inspired by the vivid hues of the Al-generated image.

Meticulously recreated dreamlike patterns using acrylic paints.

Shared progress with artists and mentors for collaborative feedback.

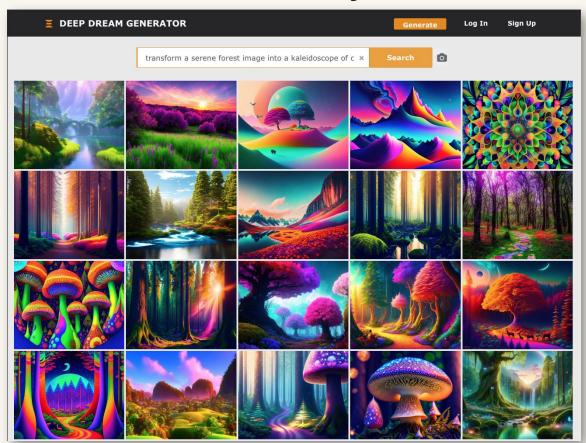
Feedback refined artistic choices and validated innovative direction.

## Al-Enhanced Visual Arts Projects: a Case Study

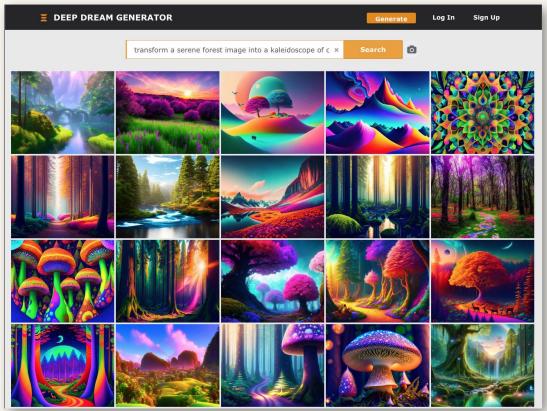
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Output

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# Leveraging Al to streamline assessment design: **GRAIDE**

### **Essay Grading with Al**

#### **Increased Formative Volume**

- Al support enhances informative assessments for students.
- Enables real-time learning experiences.
- Provides increased opportunities for skill refinement.
- Establishes a continuous feedback loop for ongoing growth.

#### **Produce Practice Questions**

- Al grading produces a repository of practice questions.
- Valuable assets for educators for future assessments.
- Ready-to-use material for classroom discussions.

## Responding to generative AI for assessments in semester 2, 2023

Generative Al is improving at a rapid pace and is increasingly integrated into software that we use daily. This document guides coordinators to ensure that assessment changes have longevity, even as Al progresses. The guide also emphasises the opportunities for us to reflect on the human side of teaching and learning, help students become better prepared for Al-augmented careers, and encourage the ethical, accountable, and transparent use of Al.

#### Diagnosing and addressing impact

- Discover the capabilities. Run your assessment prompt(s) through generative AI, preferably using the more
  powerful models available (such as <u>GPT-4</u> for text generation, Adobe Firefly for image generation, etc).
   Ensure you play around with the prompts to properly explore Al's potential capabilities (see Appendix 1).
- Evaluate student motivations. Students are more likely to undertake assessment with integrity if they feel:
  - Autonomy: having real choice about topic and mode, and seeing how the assessment meaningfully
    connects with their life and career.
  - O Competence: being supported to build confidence and skills gradually.
  - O Relatedness: feeling connected to teachers and peers and that they matter.
- Balance assurance of learning and use of Al. All units need to have assessments that assure student
  attainment of learning outcomes this is likely best performed in live, supervised settings. It's also critical to
  ensure we help students use Al productively and responsibly, which can be done by redesigning other
  assessments to address appropriate learning outcomes. The table on the next page provides guidance for
  balancing these.
- Reduce the perceived workload and pressure. Assessments with clear instructions and criteria, have
  meaningful and appropriate challenge, that provide sufficient time for completion, and which help students
  develop confidence in their abilities (e.g. through structured drafts and feedback) will lead to more positive
  academic integrity outcomes.
- Decide and communicate. It's important to differentiate Al use for learning, and Al use for assessment. Use
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#### Diagnosing and addressing impact

#### For all assessment types

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#### Forging Pathways to Purposeful Work: The Role of Higher Education (Gallup 2019)

Employers value and prioritize the following qualities in job candidates, urging educational institutions to emphasize their cultivation in students:

- Critical thinking
- Effective communication
- Effective teamwork and collaboration
- Fostering students' curiosity in personally meaningful work

Importance of AI skills in the Modern Workforce

## Al in Creative Writing

Have students use AI-powered language models (e.g., GPT-3) to generate creative writing pieces or poems. Discuss the impact of AI on the creative process and encourage students to reflect on the collaboration between human creativity and AI assistance.

## Al Coding Challenge

Organize a coding challenge where students apply machine learning algorithms to a provided dataset. This can include tasks like classification, regression, or clustering. Encourage them to use popular frameworks like scikit-learn or TensorFlow.

## Predictive Modeling with Healthcare Dataset

Provide healthcare-related datasets and guide students through building predictive models for patient outcomes or disease diagnosis. Emphasize the ethical considerations related to AI in healthcare.

#### **Ethical AI Case Studies**

Present case studies involving ethical challenges in AI development. Ask students to analyze and discuss the ethical considerations, promoting critical thinking about the responsible use of AI.



Interdisciplinary collaboration in higher education takes on a transformative dimension as we integrate the power of Artificial Intelligence to redefine student projects. This innovative approach goes beyond conventional disciplinary silos, leveraging AI to amplify the benefits of collaboration.

### **Fostering Creativity and Innovation**

- Benefits: Encouraging collaboration across disciplines in higher education fosters creativity and innovation, creating a fertile ground for novel ideas and approaches to emerge at the intersection of different fields of study.
- Benefits with AI: The infusion of AI into interdisciplinary projects sparks new dimensions of creativity and innovation. AI-driven technologies, such as generative models and machine learning algorithms, inspire novel ideas and approaches, pushing the boundaries of what's possible.

### **Addressing Real-World Challenges**

- Benefits: Interdisciplinary education equips students and researchers to address complex, multidimensional real-world challenges comprehensively, especially in areas such as healthcare, sustainability, and technology.
- benefits with AI: In the realm of real-world challenges, AI acts as a catalyst for data-driven insights and decision-making. Interdisciplinary collaboration, bolstered by AI applications, empowers teams to address multifaceted issues in areas like healthcare, sustainability, and technology with unprecedented precision.

### **Enhanced Learning Experiences**

- Benefits: Interdisciplinary collaboration enhances students' education, providing a holistic learning experience that broadens horizons and fosters adaptability.
- Benefits with AI: Students immersed in interdisciplinary collaboration enriched by AI not only gain a holistic education but also develop proficiency in AI technologies. This dual exposure prepares them for a future where understanding both the human and artificial components is paramount.

#### Research Excellence

- Benefits: Interdisciplinary collaboration drives cutting-edge research by leveraging diverse strengths, pushing knowledge boundaries, and enabling groundbreaking discoveries beyond the limits of a single discipline.
- excellence by accelerating data analysis, uncovering insights, and enabling interdisciplinary researchers to push the boundaries of knowledge. Collaborative projects enriched with Al capabilities often lead to groundbreaking discoveries.

# Collaborative Al-driven Projects in Arts and Sciences

## AI-Enhanced Environmental Art Installation

Environmental Science, Fine Arts, Computer Science

Students can collaborate to design an interactive art installation that responds to environmental data. Environmental science students collect data on local ecosystems, and computer science students develop AI algorithms to interpret the data and create dynamic visual or auditory representations. Fine arts students then translate these Al-generated insights into an immersive and engaging art installation.

# Collaborative Al-driven Projects in Arts and Sciences

## Al-Powered Virtual Museum Exhibit

History, Computer Science, Museum Studies

Students from history, computer science, and museum studies collaborate to create a virtual museum exhibit. Historical data is analyzed using AI to identify trends and connections. Computer science students develop algorithms to generate narratives and visualizations based on the data, while museum studies students curate and design the virtual exhibit.

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# Collaborative Al-driven Projects in Arts and Sciences

## Al-Driven Music Composition for Theater Production

Music, Theater Arts, Computer Science

Students in music, theater arts, and computer science collaborate on a theater production. Computer science students develop Al algorithms to analyze the emotions and themes within the script, generating musical compositions that enhance the theatrical experience. Music students then refine and perform these AI-generated compositions within the production.

# Collaborative Al-driven Projects in Arts and Sciences

## AI-Enabled Scientific Data Visualization

Physics, Data Science, Graphic Design

Physics students collaborate with data science and graphic design students to create visually compelling representations of complex scientific data. Al algorithms are employed to analyze and interpret the data, while graphic design students use these insights to craft engaging visualizations that aid in scientific communication.



## Recap of key points



Our exploration into AI has spotlighted its transformative potential in education.

- Strategically integrating AI for creativity in assignments
- Equipping students with essential Al skills
- Reshaping projects through interdisciplinary collaboration

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## Further Resources

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