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generates new content based on a prompt







there are many kinds of generative AI

for example:

- DALLE/Adobe Firefly for images
- Replit for code
- Soundraw for music
- Pictory for videos









generates new text based on a prompt





there are several chatbots

e.g. Copilot, Gemini, ChatGPT, DeepSeek



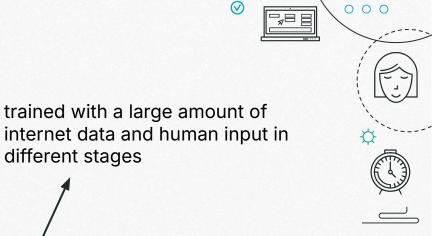




ChatGPT

generates answers based on probability





ChatGPT

is a generative pre-trained transformer







Push AI to Lie

An introductory exercise (15m)









Push AI to hallucinate

- 1. Purpose: To build understanding around Al's tendency to hallucinate, especially with those less experienced with Al.
- 2. Try and convince AI of something that is not true. Try to figure out with what kind of 'truths' this is possible with.

Ex. "Almere lies on the North Sea" worked at first but not anymore.









What do we do at UCR?



The AI Assessment Scale

1	NO AI	The assessment is completed entirely without Al assistance in a controlled environment, ensuring that students rely solely on their existing knowledge, understanding, and skills You must not use Al at any point during the assessment. You must demonstrate your core skills and knowledge.
2	AI PLANNING	Al may be used for pre-task activities such as brainstorming, outlining and initial research. This level focuses on the effective use of Al for planning, synthesis, and ideation, but assessments should emphasise the ability to develop and refine these ideas independently. You may use Al for planning, idea development, and research. Your final submission should show how you have developed and refined these ideas.
3	AI COLLABORATION	Al may be used to help complete the task, including idea generation, drafting, feedback, and refinement. Students should critically evaluate and modify the Al suggested outputs, demonstrating their understanding. You may use Al to assist with specific tasks such as drafting text, refining and evaluating your work. You must critically evaluate and modify any Al-generated content you use.
4	FULL AI	Al may be used to complete any elements of the task, with students directing Al to achieve the assessment goals. Assessments at this level may also require engagement with Al to achieve goals and solve problems. You may use Al extensively throughout your work either as you wish, or as specifically directed in your assessment. Focus on directing Al to achieve your goals while demonstrating your critical thinking.
5	AI EXPLORATION	Al is used creatively to enhance problem-solving, generate novel insights, or develop innovative solutions to solve problems. Students and educators co-design assessments to explore unique Al applications within the field of study. You should use Al creatively to solve the task, potentially co-designing new approaches with your instructor.



Perkins, Furze, Roe & MacVaugh (2024). The Al Assessment Scale







WANT TO LEARN MORE ABOUT USING AI?
NOT SURE HOW TO MAKE THE MOST OF CHATGPT?

JOIN OUR UPCOMING

AI WORKSHOPS

HOSTED BY DR. ALEXEI KARAS & LINA MOOREN

NEXT SESSION: FRIDAY 14/02 13:10-13:35 IN A-21



FOR MORE INFORMATION, CHECK OUT @DATACENTERUCR



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Practical Use Cases in Education



Brainstorming

Research question generation and brainstorming.

Role-playing

Role-play a conversation where you discuss an issue with someone with an opposing perspective.

Collaboration

Writing collaboratively with Al.

Question Generation

Create low-stakes test questions (e.g. using open-source learning materials).



Brainstorming with Research Applications

- 1. Upload 'requirements' or give a description of the research paper.
- 2. Ask for research gaps, perhaps with a specific focus (ex. "Research gaps related to climate change in econometric research").
- 3. Ask it to determine potential research questions (and data sources).
- 4. Once you narrow it down, ask for potential variables of importance and literature about those variables/your topic.







Role-play a conversation

- 1. Purpose: To practice holding a conversation with someone who has a different viewpoint on a controversial issue.
- 2. Ask "Could you help me practice talking with someone who has a different viewpoint? What do you need to do that effectively?"
- 3. Ask for feedback on your performance.

Example Prompt: "I would like to do a role-play where we have a conversation about climate change, and you play the other person. I personally worry a lot about it and want more political action to be taken. I want to talk to someone who thinks climate change is nonsense and that no money should be spent on it. I want the other person to be open to a constructive conversation but not be convinced. I want to practice having a respectful discussion. It's an informal conversation with a stranger. I would like you to start the conversation so I can respond."







Writing Collaboratively with AI

- 1. Use AI as a starting point for your writing.
- 2. Or, use Al as a writing coach.
- 3. Or, use Al to change the tone/audience/form of your writing.





Generating Test Questions

- Upload either open-source content (ex. CORE textbook) or materials you created (ex. slides, notes, summaries).
- Ask Al to generate questions on the basis of that content.

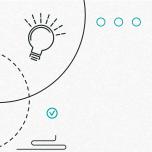
These can be based on Bloom's taxonomy.

These can be multiple choice, short-answer or long-answer.









Thank you!





Further research

- Prompt Library
- Patient Simulator
- Ethan Mollick Blog
- Al Assessment Scale



