A year of Al assignments

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What is school for?

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- Socializing (building a network)
- Signaling
- Self Discovery
- Learning

What is school for?

- Socializing (Al proof)
- Signaling (Al proof with pen and paper exams)
- Self Discovery (Al proof)
- Learning (uh-oh)

Learning Truths

- You can learn on your own (Books, Youtube, the internet and AI)
- But, very few people can learn on their own
- So we have school. It is commitment device to get people to learn things we (society) think they should know

Learning with AI:

(A) use it to learn and grow strong and work better

(B) you can use it to avoid learning, growing and working

(C) refuse to use it

(A) is better than (C) always

(C) is better than (B) if the learning is worth doing

(B) is better than (C) and (A) if the learning is not worthwhile

Learning with AI:

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(C) refuse to use it

(A) is better than (C) always

- (C) is better than (B) if the learning is worth doing
- (B) is better than (C) and (A) if the learning is not worthwhile
- (C) is not an option! Studies show that AI detectors don't work and Teachers are actually bad at catching it. Further, where is the line? How much AI use is too much.

REDESIGN

- Use frequent in-person testing, both as the basis of grades and as a forcing function so that students learn.
- Use in-person assignments and tasks, so you can prevent AI use. This can be time consuming.
- Embrace AI and design new tasks and assignments that cause students to learn together with the AI.

Assignments

- Check your HW with AI, what can it do, what can't it do?
- Encourage students to challenge you with Al
- Model AI use in the classroom,
 - model what it gets wrong
 - If you find hallucinations, show them
- Give them prompts

Assignments (no Al)

- Interview based projects
- Multimedia projects, in class talks (I have a group presentation)
- Supply and Demand Graphing (for now)

Assignments (with AI)

WORK

- <u>Competitions</u> (response must beat the AI for credit)
 - o Improve or change-Critique/Stylize the response
- Debate (need clear guidelines)

MID

- Pick the best
- Play a role

DID NOT WORK

- Research
- Prediction

Assignments (with AI): stylize

 Can also have the Al generate different levels of response, or in different styles Question 1 5 pts

Use an LLM to fully grasp the difference between creative destruction and disruptive innovation. Once you've done so, come up with a creative way (using an AI tool) to explain the difference.

Some notes:

- LLMs are good at varying the readability of their output (e.g. explain it to me like I'm 5)
- LLMs are also good at stylizing their responses (e.g. explain it to me in the style of Tony Soprano)
- You can also use other services like Al art or Al song generators (I recommend Suno)

Have students debate Al on a Economics topic-

 Adjustments: limit the Al response to a word count, no judging by a second Al, clear on back and forths, clear on grading criteria

Debate

Activity:

After reading through the above articles and listening to the listed podcast, form your own opinion on the matter. You will not be penalized for taking either side.

Then, choose a LLM and have a debate with it on the matter. Be sure you understand your point of view and are prepared to debate with specific citations and examples.

Instruct the LLM to:

- 1. Take the opposite side of you
- 2. Argue in good faith
- 3. Use citations

Go back and forth with the LLM. When you are finished, select a different LLM to judge who won the debate and why. Feel free to iterate and try the debate a second or third time.

Pick the best

https://chat.lmsys.org/

 Students ask questions to two chatbots and choose the superior answer, you could do this as a class.

Submit:

Use the following link to access Chatbot Arena: https://chat.lmsys.org/ →

Chatbot Arena allows users to ask any question to two anonymous large language model (LLM) chatbots. This site will send your prompts to two different chatbots. Ask the chatbots the questions below and include their responses in your submission.

- 1. What is economics?
- 2. How can a person in business benefit from the study of economics?
- 3. Give a specific example of how knowledge of economics helped a CEO. entrepreneur or company.

Paste the chatbots' responses to each question into your submission. Then, determine which response is better and why.

Play a role

Al is good at offering different perspectives

 I have several assignments where students ask AI to answer "as an economist" and "as a philosopher" to see the different perspectives

Submit:

For this assignment, choose a LLM (such as ChatGPT) to converse with and use the following prompt below:

"First go through the ethical considerations to limiting competition via the following strategies 1) horizontal integration 2) vertical integration 3) Patents 4) Regulatory capture 5) predatory prices. Be sure to weigh trade offs and incentives plus value creation. Then play 3 roles 1) a businessperson 2) an economist and 3) a philosopher and say whether you would recommend these strategies to a firm."

Submit the results and discuss where the LLM claims the three people (businessperson, economist, philosopher) would agree and disagree. Which perspective most closely aligns with your own and why?