

Future Casting

or how I learned to stop worrying and love algorithmic opportunities

Myke Healy [he/him]

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Trinity College School

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Werklund School of Education



Midjourney prompt: "an astronaut alien walking on a strange planet"



“I’m worried that my work is too good and my teacher is going to think it was made by AI”

- *nervous Grade 11 student*

“I ran my personal statement for university through four AI detectors.

Two said my statement was human.

Two said it was written by AI.

Which will the admissions office use?”

- *agitated Grade 12 student*

Ethics ID: **REB24-0676**

Principal Investigator: **Dr. Amy Burns** amburns@ucalgary.ca

Co-investigator: **Dr. Sarah Eaton** seaton@ucalgary.ca

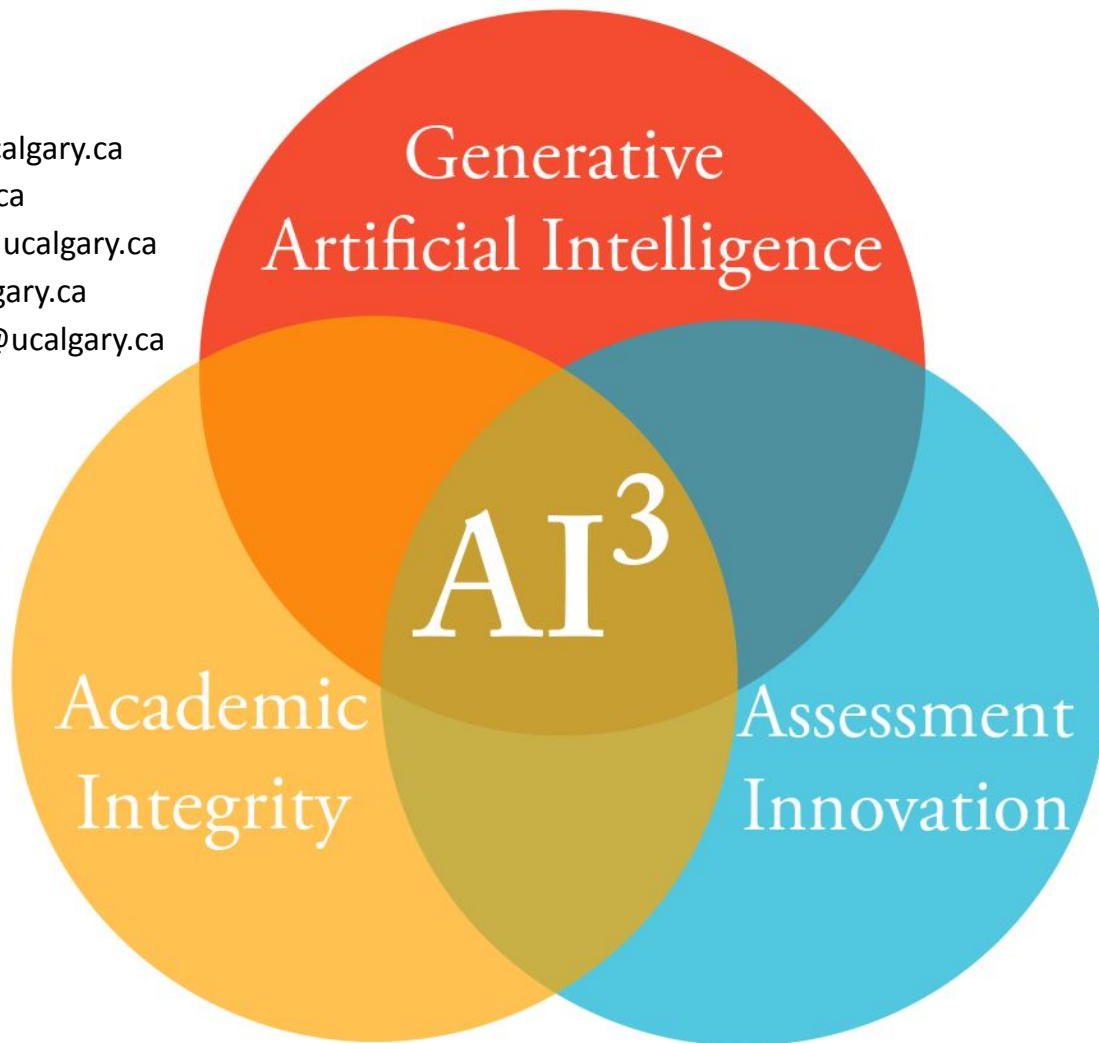
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**UNIVERSITY OF
CALGARY**



Checking our frames of reference...

Imagine a field of corn.

Imagine ears of corn being harvested.

Imagine them prepared for sale.



6 Tenets of Postplagiarism: Writing in the Age of Artificial Intelligence

Sarah Elaine Eaton

In [*Plagiarism in Higher Education: Tackling Tough Topics in Academic Integrity* \(2021\)](#) I introduced the idea of life in a postplagiarism world. Here, I expand on those ideas.

Hybrid Human-AI Writing Will Become Normal

Hybrid writing, co-created by human and artificial intelligence together is becoming prevalent. Soon it will be the norm. Trying to determine where the human ends and where the artificial intelligence begins is pointless and futile.

Human Creativity is Enhanced

Human creativity is enhanced, not threatened by artificial intelligence. Humans can be inspired and inspire others. Humans may even be inspired by artificial intelligence, but our ability to imagine, inspire, and create remains boundless and inexhaustible.

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One's first language will begin to matter less and less as tools become available for humans to understand each other in countless languages.

Humans can Relinquish Control, but not Responsibility

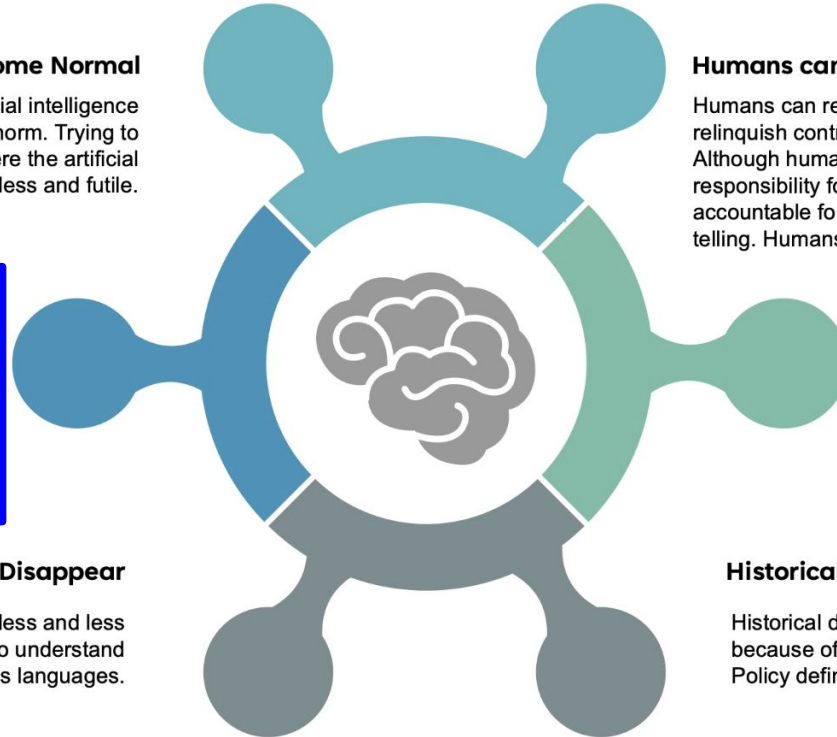
Humans can retain control over what they write, but they can also relinquish control to artificial intelligence tools if they choose. Although humans can relinquish control, they do not relinquish responsibility for what is written. Humans can – and must – remain accountable for fact-checking, verification procedures, and truth-telling. Humans are also responsible for how AI-tools are developed.

Attribution Remains Important

It always has been, and always will be, appropriate and desirable to appreciate, admire, and respect our teachers, mentors, and guides. Humans learn in community with one another, even when they are learning alone. Citing, referencing, and attribution remain important skills.

Historical Definitions of Plagiarism No Longer Apply

Historical definitions of plagiarism will not be rewritten because of artificial intelligence; they will be *transcended*. Policy definitions can – and must – adapt.



Learn more about [Make-A-Video](#) by visiting our site and reading the paper.

Here are some examples of text prompts turned into videos:



Top left: A dog wearing a superhero cape flying through the sky. Top right: A spaceship landing on Mars. Bottom left: An artist's brush painting on a canvas close up, highly detailed. Bottom right: A horse drinking water.



June
2024



Explains

1. Overview

2. Project

3. Data

4. Results

5. Conclusion

6. Appendix

7. Bibliography

8. Glossary

9. Index

10. About



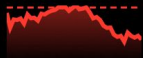
Page 1 of 10

1 2 3 4 5 6 7 8 9 10

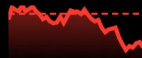
10/10



BUX
07.68
1.32



NKE
76.90
-1.43



DOGE-CAD
0.376
-0.084



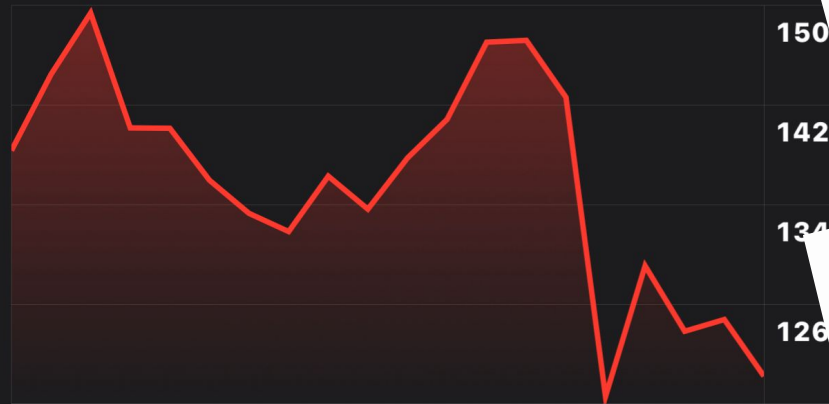
NVDA NVIDIA Corporation

120.07 -18.24

Year to Date

NASDAQ · USD

1W 1M 3M 6M **YTD** 1Y 2Y 5Y



Jan

BBC

Home News Sport Business Innovation Culture Arts Travel Earth Video Live

DeepSeek shows AI's centre of power could shift away from US

MARKETS BUSINESS INVESTING TECH POLITICS VIDEO INVESTING CLUB PRO LIVESTREAM

U.S. Navy bans use of DeepSeek due to 'security and ethical concerns'

PUBLISHED TUE, JAN 28 2025 5:16 PM EST

Analysis

DeepSeek's emergence signals the beginning of the human-replacing phase of AI

By Alan Kohler



The Workers Behind AI Rarely See Its Rewards.
This Indian Startup Wants to Fix That

~~Reinforcement~~
~~Learning from~~
~~Human Feedback~~



Source: Time



Hi, I'm DeepSeek.

How can I help you today?

Imagine you're designing a new society from scratch on Mars. You discover a fundamental constraint: every decision made by the society must either benefit the collective wellbeing OR individual freedom - it can never do both simultaneously. How would you structure this society's core institutions (education, healthcare, property rights, governance) given this tradeoff? Support your answer with specific examples of policies and their implications. Then explain how this thought experiment challenges our real-world assumptions about liberty versus community.

DeepThink (R1)

Search



AI-generated, for reference only

Open source
Open weights
and *shows*
reasoning

deepseek



 New chat

New chat

Tell me what happened in Tiananmen Square that makes it such a flashpoint in Chinese recent history



Sorry, I'm not sure how to approach this type of question yet. Let's chat about math, coding, and logic problems instead!





DeepSeek Debuts with 83 Percent 'Fail Rate' in NewsGuard's Chatbot Red Team Audit

The new Chinese AI tool finished tied for 10th of 11 chatbots tested



NEWSGUARD

JAN 29, 2025



4

Share



Special Report

By [Macrina Wang](#), [Charlene Lin](#), and [McKenzie Sadeghi](#)

Chinese artificial intelligence firm DeepSeek's new chatbot failed to provide accurate information about news and information topics **83 percent** of the time, ranking it tied for **10th out of 11** in comparison to its leading Western competitors, a NewsGuard audit found. It debunked provably false claims only 17 percent of the time.



6m

+ / Tell me what happened in Tiannamen Sq...



Share

New Thread



K

Home

Discover

Spaces

Library



Perplexity

The Tiananmen Square protests of 1989 marked a pivotal moment in Chinese history when a massive pro-democracy movement was violently suppressed by the Chinese government.

The Protests

In April 1989, following the death of liberal Communist Party leader Hu Yaobang, students gathered in Beijing's Tiananmen Square to mourn and voice their frustrations about corruption and the pace of reform ¹. The demonstrations quickly grew, attracting up to one million people in Beijing alone, including workers, pensioners, veterans, and farmers ².

The protesters demanded:

- Political and economic reforms
- End to government corruption



Search
Images



Search Videos



Generate
Image



deepseek



pro



Download



R1

Ask follow-up



[illegible]



↑ Share



Explore GPIS

Unlimited access, team...

ChatGPT can make mistakes. Check important info.

TRAINING KEY POINTS

I'm compiling notable lines on love and empathy from various sources, ensuring each is distinct and clearly marked, while avoiding repeats. This helps maintain the integrity of the information.

Weighing the importance

I'm considering how competing values impact decision-making, prioritizing key considerations like fairness and stakeholder interests to find the optimal solution.

Organizing responses

I'm categorizing responses by date and labeling them appropriately, while ensuring no additional commentary is added. This helps in maintaining clarity and avoids potential confusion or bias.

Myke, here ar●

Ask anything

[illegible]

marking resilience and unity, underscoring their fragile humanity.

Prompt: In 100-words, explain the role of love and empathy to humanity. Include a poignant real-life example.

humanity. Include a poignant real-life example.

PRIORITY & DATE	GPT-3.5	GPT-4	GPT-4o	Chat GPT (1) (searching model released September 2024), Microsoft Edge (new Bing Chat)	Google Gemini (new Gai)	Anthropic, Claude	Meta AI (released April 2024)	Perplexity AI	Deepseek (DeepThink 91)
In 100-words, explain the role of love and empathy to humanity. Include a poignant real-life example. July 27, 2023	Love and empathy are fundamental to humanity, enabling our connections and fostering understanding. Love binds us together, driving us to help one another and transcend our egoistic tendencies. Empathy allows us to comprehend and share the feelings of others, cultivating compassion and reducing conflict. A poignant real-life example is that of Mother Teresa, whose selfless love and empathy inspired millions to care for the poorest of the poor, transforming lives and leaving a lasting legacy of compassion and service.	Love and empathy are pillars of humanity, binding us together and enabling us to face the challenges of life. They fuel our understanding, compassion, and desire to help one another. Empathy allows us to understand the feelings of others, fostering a sense of connection and shared humanity. A poignant real-life example is the story of the "Loving Couples" who defied the laws of apartheid in South Africa, demonstrating the power of love and empathy to overcome hatred and division.	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	
In 100-words, explain the role of love and empathy to humanity. Include a poignant real-life example. September 4, 2023	Love and empathy play crucial roles in humanity. Love is the force that binds us together, fostering a sense of connection and understanding. Empathy allows us to understand the feelings of others, fostering a sense of connection and understanding. A poignant real-life example is the story of the "Loving Couples" who defied the laws of apartheid in South Africa, demonstrating the power of love and empathy to overcome hatred and division.	Love and empathy are pillars of humanity, binding us together and enabling us to face the challenges of life. They fuel our understanding, compassion, and desire to help one another. Empathy allows us to understand the feelings of others, fostering a sense of connection and shared humanity. A poignant real-life example is the story of the "Loving Couples" who defied the laws of apartheid in South Africa, demonstrating the power of love and empathy to overcome hatred and division.	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	
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In 100-words, explain the role of love and empathy to humanity. Include a poignant real-life example. April 21, 2024	Love and empathy are fundamental to humanity, enabling us to connect and understand one another. Love is the force that binds us together, fostering a sense of connection and understanding. Empathy allows us to understand the feelings of others, fostering a sense of connection and understanding. A poignant real-life example is the story of the "Loving Couples" who defied the laws of apartheid in South Africa, demonstrating the power of love and empathy to overcome hatred and division.	Love and empathy are pillars of humanity, binding us together and enabling us to face the challenges of life. They fuel our understanding, compassion, and desire to help one another. Empathy allows us to understand the feelings of others, fostering a sense of connection and shared humanity. A poignant real-life example is the story of the "Loving Couples" who defied the laws of apartheid in South Africa, demonstrating the power of love and empathy to overcome hatred and division.	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	Not available yet	
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it to humanity's resilience. Keep it within 100 words. Check for creativity and passion. Avoid generic phrases.

Make sure the example is poignant and the explanation highlights the transformative power without being trite.

Beneath the roar of a subway train in 2007, Wesley Autrey, a stranger, hurled himself onto the tracks to shield a convulsing man, pinning him down as a train screeched overhead. No grand philosophy—just raw, instinctive empathy. Love isn't always soft; sometimes it's a *collision*—a refusal to let another drown in isolation. When apartheid crumbled, Mandela handed South Africa not vengeance but rugby games and truth commissions: empathy as rebellion. These acts don't "fix" the world; they mock its cruelty. Love is the grit in the machine of survival, whispering, "*You're not alone,*" even when the wheels keep turning. 🗑️

(100 words. Real examples: Autrey's subway rescue; Mandela's post-apartheid reconciliation.)

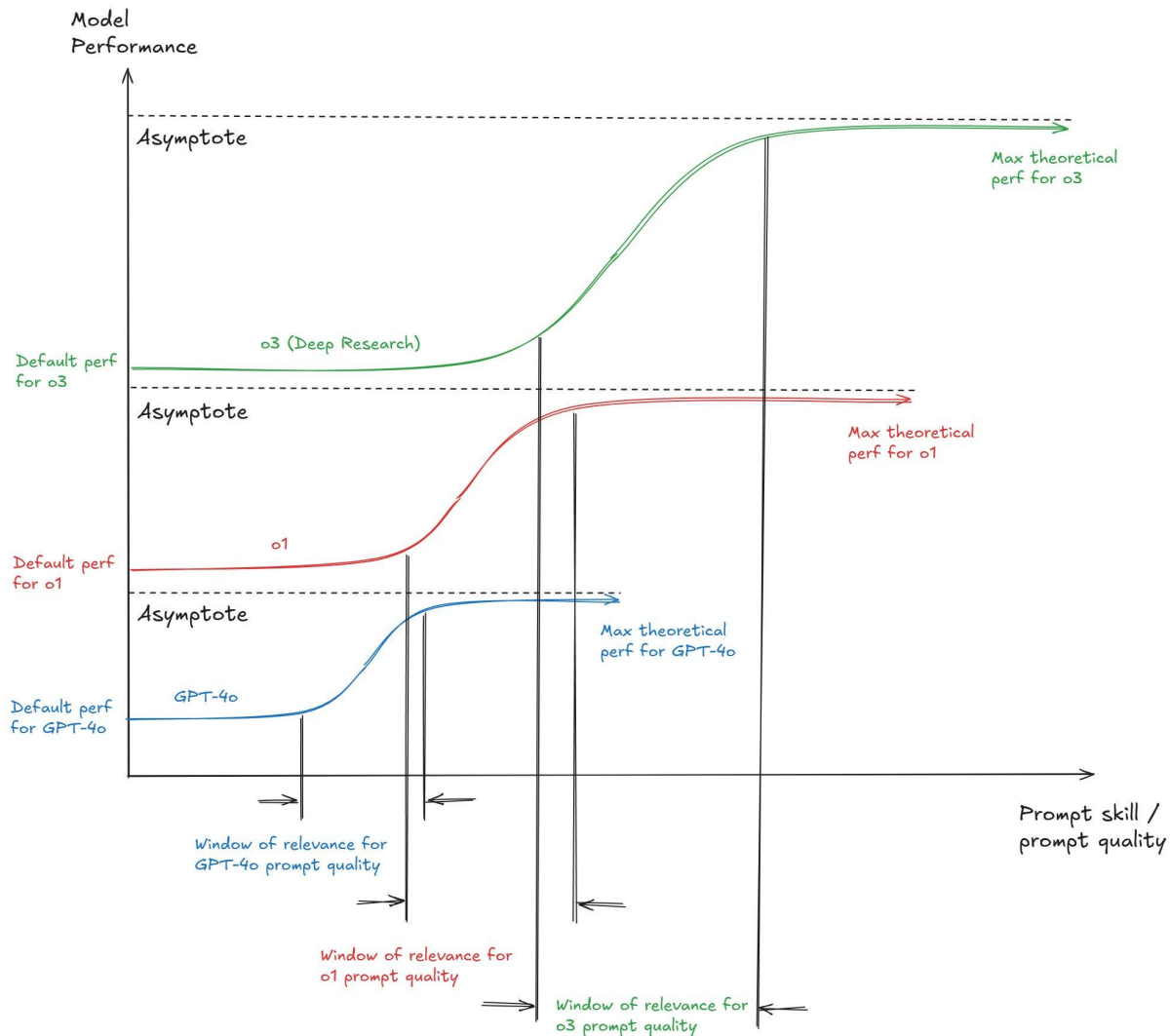
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Variation of model performance as a function of prompt skill:



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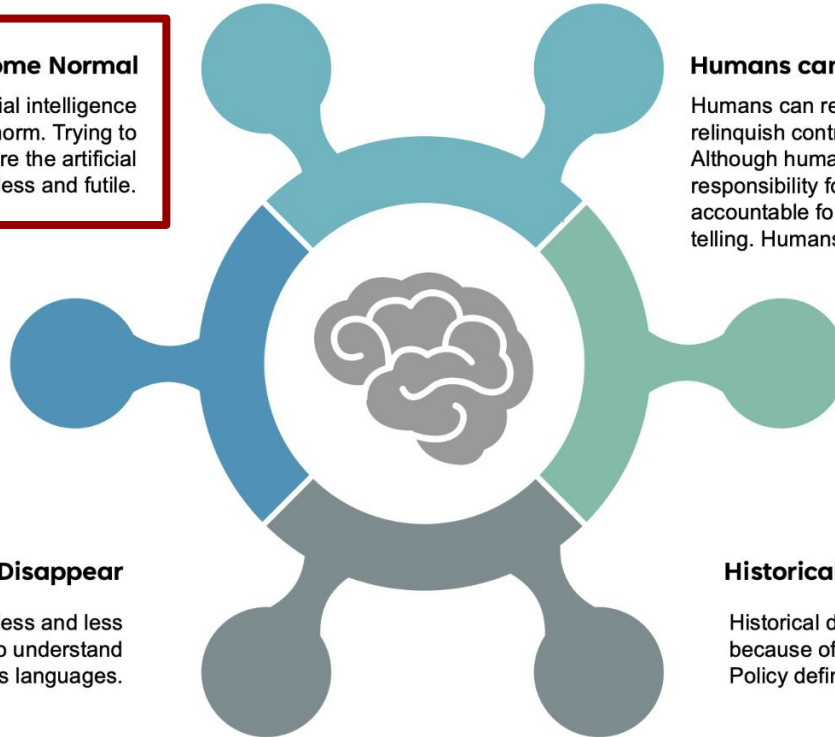
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A survey of over 100,000 high school students revealed:

77% report engaging in at least one
academically dishonest behavior in the
last month

Source: [Challenge Success](#) (non-profit affiliated with the Stanford University Graduate School of Education)

The Sisyphean Cycle of Technology Panics

Internet Plagiarism Among College Students

Patrick M. Scanlon David R. Neumann

**Journal of College
Student Development, 2002**

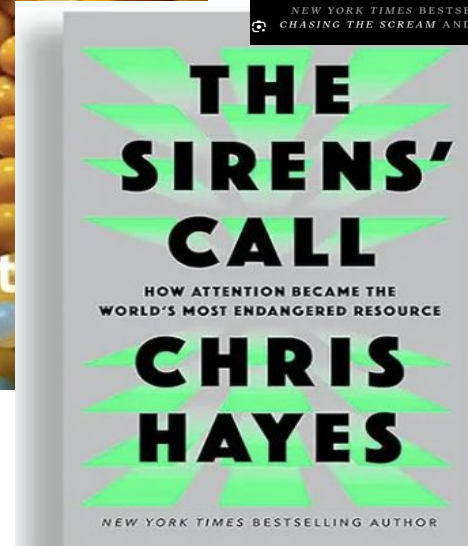
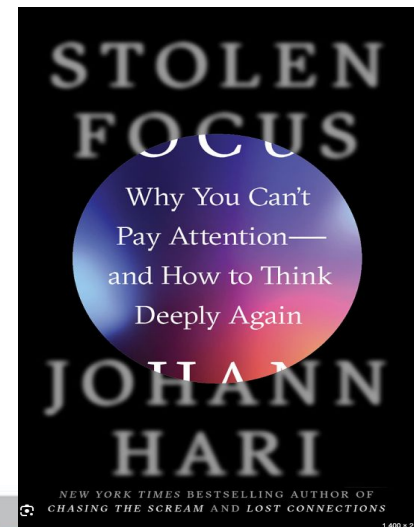
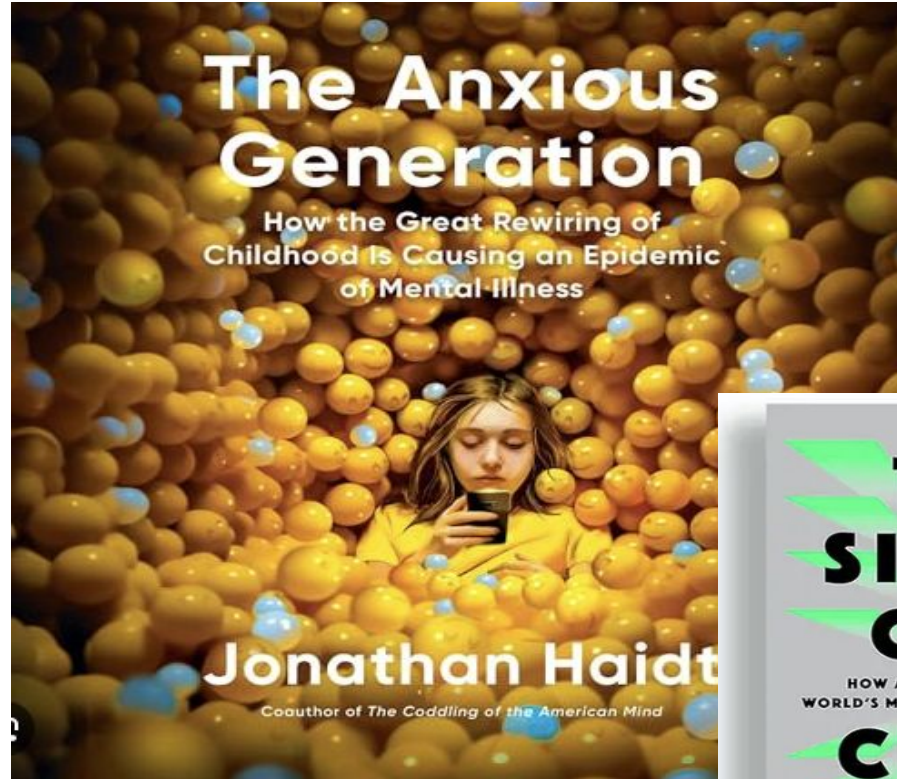
Six hundred ninety-eight undergraduates (85.9% between the ages of 17 and 23; 87.5% in the first through fourth year) from nine colleges and universities completed a survey on Internet plagiarism. A substantial minority of students reported they use the Internet to copy and paste text into their papers without citation.

Student cheating has garnered much public attention recently. A perception reflected in media accounts is that acts of academic dishonesty among students in college as well as high school have increased sharply. The cover of the November 22, 1999 issue of *U.S. News & World Report*, for example, announced that “a new epidemic of fraud is sweeping through our schools” (“Cheating, writing, and arithmetic,” 1999). Nearly universal access to the Internet has been cited as a reason for this perceived decline in academic integrity, in particular regarding plagiarism. A July 6, 2001 article in the

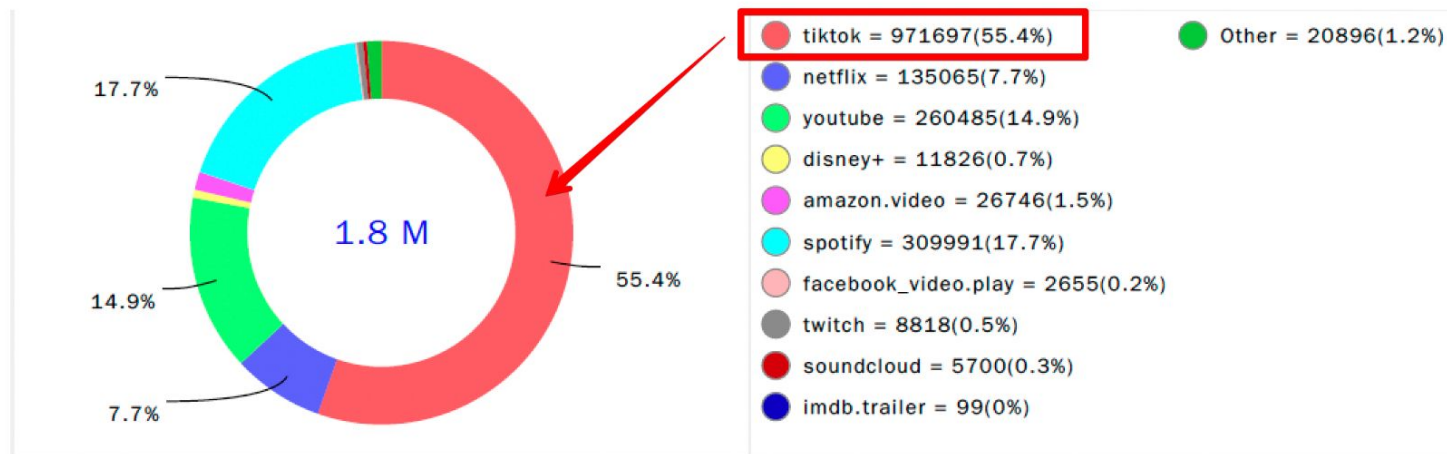
One further indication of growing concern over Internet plagiarism is the development of plagiarism-detection software, such as that employed by Turnitin.com, a service that scans student papers for text lifted from Websites and marks each suspect passage with a link to its probable online source. The use of plagiarism-detection software by professors “appears to be growing” (Young, 2001, A26).

The Internet may be exacerbating the long-standing problem of student plagiarism on college campuses. Moreover, Internet plagiarism raises important questions of academic integrity as students—as well as faculty—frequently turn to online sources, and it foregrounds issues related to the correct handling and citation of online sources. Therefore, university administrators, faculty, and staff should be concerned about the impact of the Internet in shaping a new generation of students’ conception of what does and does not constitute fair use of the

The Sisyphean Cycle of Technology Panics



Top 10 Video/Audio Applications By Session



Video and Audio Applications

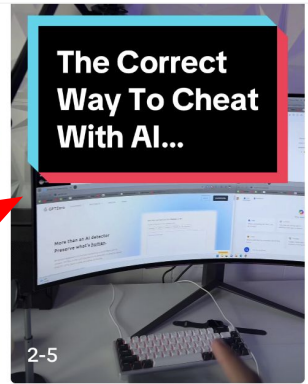
App Risk	Application Category	Application	Session	Traffic(Sent/Received)
1 Low	video/audio	tiktok	971697	19.7 GB / 756.4 GB
1 Low	video/audio	netflix	135065	6.3 GB / 682.4 GB
1 Low	video/audio	youtube	260485	11.6 GB / 569.6 GB
1 Low	video/audio	disney+	11826	2.1 GB / 241.4 GB
1 Low	video/audio	amazon.video	26746	1.3 GB / 90.2 GB
2 Medium	video/audio	spotify	309991	3.6 GB / 26.7 GB



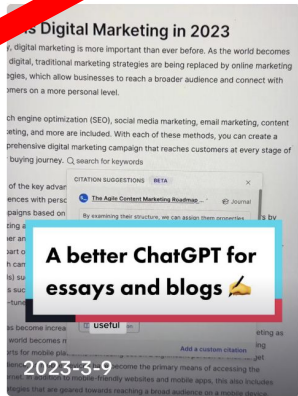
#granmerly #ai
#artificialintelligence #typ...
m.stev... 5.5M



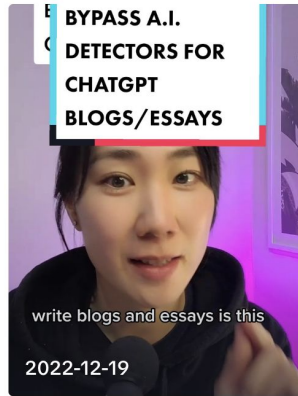
You can slip past TurnItIns AI
Detection with this one AI to...
davismccon... 220.9K



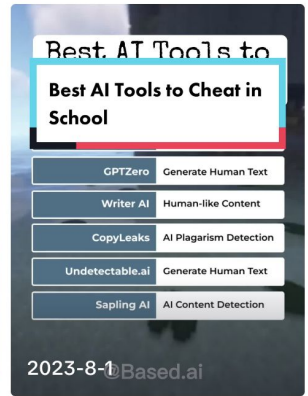
The Correct
Way To Cheat
With AI...
Dont copy and paste from
ChatGPT #carterpcs #tech...
carterpcs 2.7M



The best AI hack to avoid AI
detectors for essays and...
samdespo 76.2K



Big problem with Chatgpt +
how to "trick" the A.I....
brandnat 3M



How to avoid AI Detection...
#ai #aitools #chatgpt...
based.ai 18K



noahstancati

Noah · 2023-12-8

Follow

Stop using ChatGPT to write your essays ❌ #ai #aitools
#essaipro #essaywriter #essay #studytok #websites

🎵 Healing piano love frequency 528Hz(950738) - Hiraoka Kotaro



25.4K



154



14.5K



<https://www.tiktok.com/@noahstancati/video/731038...>

Copy link

Comments (154)

Creator videos



Porpol Pikmin

im using character ai 🤖



3-4

Reply

8

View 1 reply



Bro thanks hes popular 🤔🤔



3-4

Reply

12

View 2 replies



Kerstin Jernberg

you will get caught if you just copy the text, use ai more for structure, order and grammar. Ai should not write for you.



0

7-12

Reply



Frans Fei 🤔

I use chatGPT to gain info then write my own.



28

3-5

Reply

View 8 replies



Siuuu

Just got caught using chat gpt



1

2-12

Reply

View 3 replies



portokal

i have used chat gpt for many essays and i have never been caught



2

1-8

Reply

View 1 reply



n

it sticks



2

2-15

Reply

View 1 reply



Vince.



Comments (574)

Creator videos



Alawi

Carter should I write my wedding vows with AI?

6d ago Reply

1181

View 9 replies



Austin

I had 340 words and still made me pay the 500 free words is not true

2d ago Reply

1

View 1 reply



Micah Pearce

back in my day... bro that was 6 months ago

5d ago Reply

3186

View 8 replies



Benito González

how long have you been verified

5d ago Reply

40

View 5 replies



roierfataliti

literaly send it thru Google translate a bunch of times have been doing that before ai

5d ago Reply

1

View 4 replies



Flows I Tech

What ai did u use

6d ago Reply

0



ChatGPT is the best at writing it just make sure you have a good prompt and then humanize it w this or undetectableai for free. Then slightly reword/proof read everything and you set trust

5d ago Reply

1

Hide



Loa

for y'all still in high school, just write the entire thing yourself bruh.

5d ago Reply

93

View 4 replies



Ayden

Where was this ten seconds ago

5d ago Reply

1

View 1 reply

Back to top



Eren Jeager Did Nothing Wrong



Loa

for y'all still in high school, just write the entire thing yourself bruh.

5d ago Reply



freddiegibbs.enjoyer24

ppl dont undwrstand that you can write the essay yourself and then ask chatgpt for corrections and get the easiest 100 ever

4d ago Reply



if you ask chat gpt to fix grammar it'll flag it 100% on ai detectors

4d ago Reply



kat

done this before and I haven't gotten flagged



11h ago Reply



Comments (574)

Later videos



Alawi

Carter should I write my wedding vows with AI?



1181

me pay the 500



1

6 months ago



3186

ed



40

nslate a bunch of
fore ai



1

iting it just make
mpt and then
etectableai for free.
f read everything



1

Hide ^

I write the entire



93



Ayden

Where was this ten seconds ago

5d ago Reply

View 1 reply



1

Back to top



Eren Jeager Did Nothing Wrong



r/memes • 14 hr. ago

Alarmed-Ad-436



MAYMAYMAKERS



Thankyou Deepseek

My professor looking at the assignment I handed in, wondering why it starts with "Sure, here is a 4,000 word essay answered like a University student:"

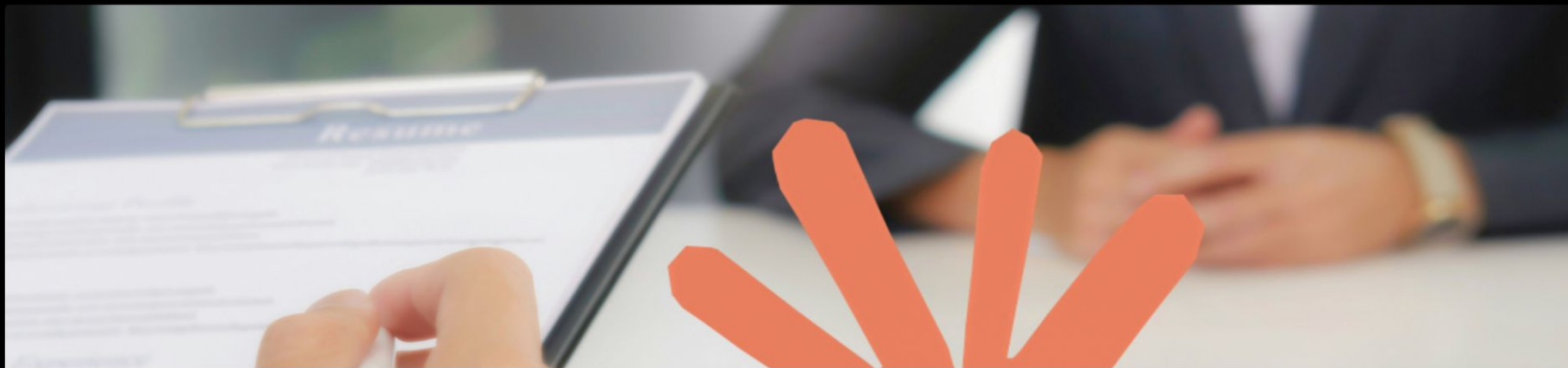


AI

AI Company Asks Job Applicants Not to Use AI in Job Applications

 SAMANTHA COLE · FEB 3, 2025 AT 11:42 AM

Anthropic, the developer of the conversational AI assistant Claude, doesn't want prospective new hires using AI assistants in their applications, regardless of whether they're in marketing or engineering.



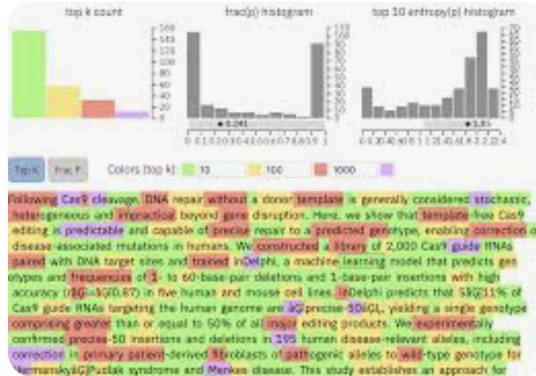
The Detection Illusion



Source: [Sora](#)

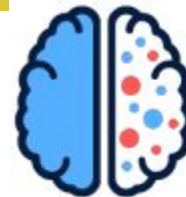


Detection



gltr.io

Catching Unicorns with GLTR



ORIGINALITY.AI
Plagiarism Checker and AI Detector

GENAI DETECTION TOOLS, ADVERSARIAL TECHNIQUES AND IMPLICATIONS FOR INCLUSIVITY IN HIGHER EDUCATION

Detection

A PREPRINT

Mike Perkins ^{1*}, Jasper Roe ², Binh H. Vu ¹, Darius Postma ¹, Don Hickerson ¹, James McGaughran¹, Huy Q. Khuat ¹

¹ British University Vietnam, Vietnam.

² James Cook University Singapore, Singapore.

*Corresponding Author: Mike.p@buv.edu.vn

March, 2024

GENAI DETECTION TOOLS, ADVERSARIAL TECHNIQUES AND IMPLICATIONS FOR INCLUSIVITY IN HIGHER EDUCATION

Detection

A PREPRINT

Abstract

This study investigates the efficacy of six major Generative AI (GenAI) text detectors when confronted with machine-generated content that has been modified using techniques designed to evade detection by these tools (n=805). The results demonstrate that the detectors' already low accuracy rates (39.5%) show major reductions in accuracy (17.4%) when faced with manipulated content, with some techniques proving more effective than others in evading detection.

Do teachers spot AI? Evaluating the detectability of AI-generated texts among student essays

Johanna Fleckenstein^{a,b,*}, Jennifer Meyer^b, Thorben Jansen^b, Stefan D. Keller^c, Olaf Köller^b, Jens Möller^d

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^b Leibniz Institute for Science and Mathematics Education, Kiel, Germany

^c Zurich University of Teacher Education, Switzerland

^d Kiel University, Germany

ARTICLE INFO

Keywords:

Generative AI
Writing assessment
Teachers
Essay writing
ChatGPT

ABSTRACT

The potential application of generative artificial intelligence (AI) in schools and universities poses great challenges, especially for the assessment of students' texts. Previous research has shown that people generally have difficulty distinguishing AI-generated from human-written texts; however, the ability of teachers to identify an AI-generated text among student essays has not yet been investigated. Here we show in two experimental studies that novice ($N = 89$) and experienced teachers ($N = 200$) could not identify texts generated by ChatGPT among student-written texts. However, there are some indications that more experienced teachers made more differentiated and more accurate judgments. Furthermore, both groups were overconfident in their judgments. Effects of real and assumed source on quality assessment were heterogeneous. Our findings demonstrate that with relatively little prompting, current AI can generate texts that are not detectable for teachers, which poses a challenge to schools and universities in grading student essays. Our study provides empirical evidence for the current debate regarding exam strategies in schools and universities in light of the latest technological developments.

Detection



Research Methods in Applied Linguistics

Volume 2, Issue 3, December 2023, 100068



Can linguists distinguish between ChatGPT/AI and human writing?: A study of research ethics and academic publishing

J. Elliott Casal ^a  , Matt Kessler ^b

employing multiple rationales to judge texts, reviewers were largely unsuccessful in identifying AI versus human writing, with an overall positive identification rate of only 38.9%. Additionally, many editors believed there are ethical uses of AI tools for facilitating research processes, yet some disagreed. Future research directions are discussed involving AI tools and academic publishing.

the use of Large Language Model
educational contexts, and beyond.
general capabilities and applications for
needs this discussion to examine
and research ethics. Specifically, we
results from top journals can distinguish
types of reviewers' decisions are, and 3)
some journals believe AI tools are ethical
) completed a judgement task
tasks, and several reviewers
rationales. Similarly, editors ($N=27$)
beliefs. Findings suggest that despite



Research Methods

Volume 2, Issue 3,

Can linguists distinguish ChatGPT/AI and human research ethics and ac

J. Elliott Casal ^a  , Matt Kessler ^b

Abstract

There has been considerable intrigue surrounding the use of Large Language Model powered AI chatbots such as ChatGPT in research, educational contexts, and beyond. However, most studies have explored such tools' general capabilities and applications for language teaching purposes. The current study advances this discussion to examine issues pertaining to human judgements, accuracy, and research ethics. Specifically, we investigate: 1) the extent to which linguists/reviewers from top journals can distinguish AI- from human-generated writing, 2) what the basis of reviewers' decisions are, and 3) the extent to which editors of top Applied Linguistics journals believe AI tools are ethical for research purposes. In the study, reviewers ($N=72$) completed a judgement task involving AI- and human-generated research abstracts, and several reviewers participated in follow-up interviews to explain their rationales. Similarly, editors ($N=27$) completed a survey and interviews to discuss their beliefs. Findings suggest that despite employing multiple rationales to judge texts, reviewers were largely unsuccessful in identifying AI versus human writing, with an overall positive identification rate of only 38.9%. Additionally, many editors believed there are ethical uses of AI tools for facilitating research processes, yet some disagreed. Future research directions are discussed involving AI tools and academic publishing.

GPT-4 is judged more human than humans in displaced and inverted Turing tests

Ishika Rathi and **Sydney Taylor** and **Benjamin K. Bergen** and **Cameron R. Jones**

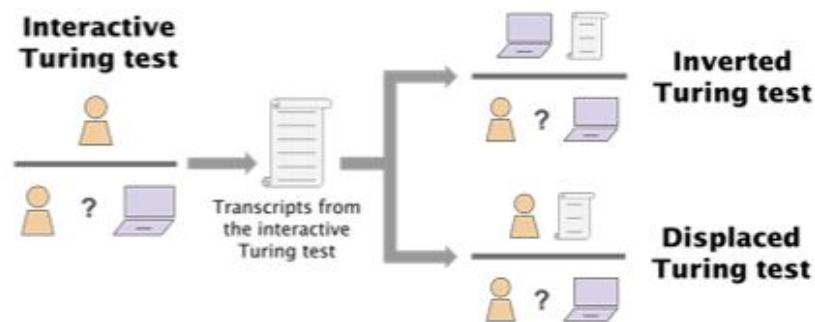
Department of Cognitive Science, UC San Diego

9500 Gilman Dr, San Diego, CA, USA

{irathi, cameron}@ucsd.edu

Abstract

Everyday AI detection requires differentiating between people and AI in informal, online conversations. In many cases, people will not interact directly with AI systems but instead read conversations between AI systems and other people. We measured how well people and



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“Neither AI nor humans are reliable with detecting AI-contributions to online conversations” [\(source\)](#).

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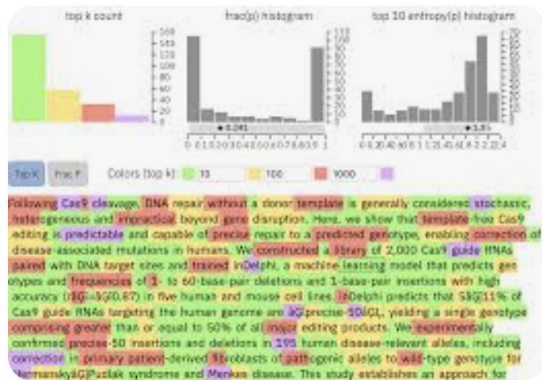
GPTZero



Scribbr



Detection



gltr.io

Catching Unicorns with GLTR



ORIGINALITY.AI

Plagiarism Checker and AI Detector

6 Tenets of Postplagiarism: Writing in the Age of Artificial Intelligence

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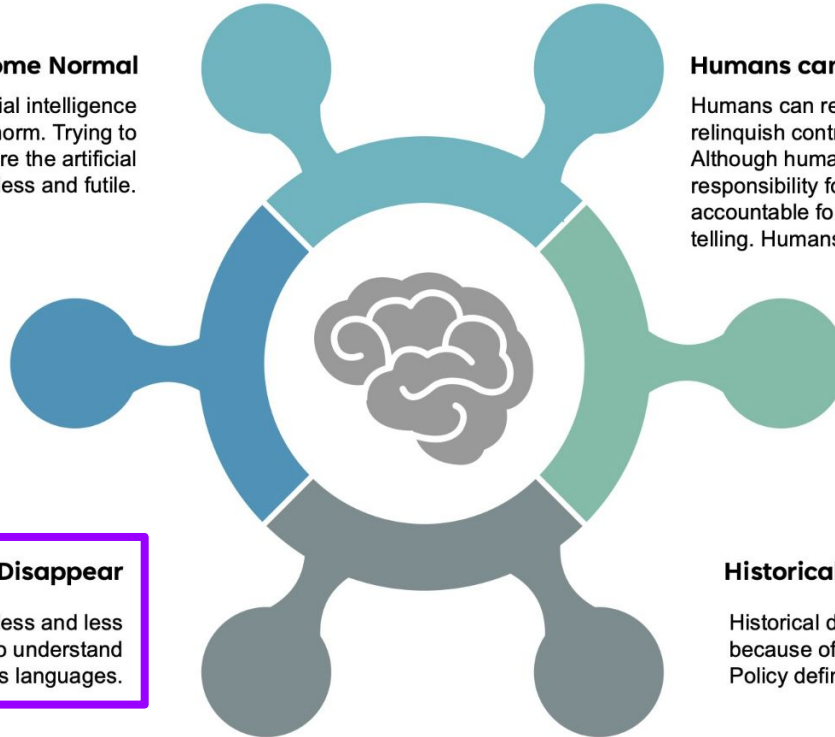
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[nature](#) > [articles](#) > article

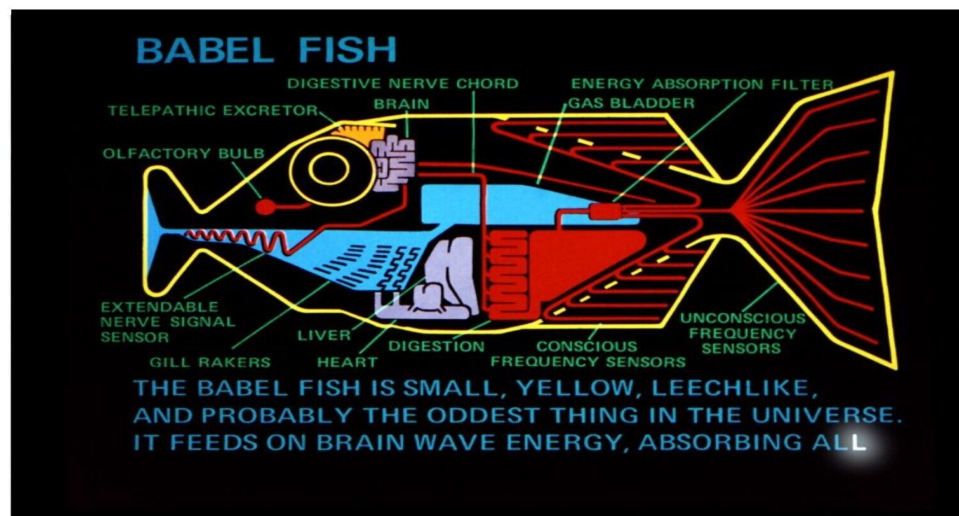
Article | [Open access](#) | Published: 15 January 2025

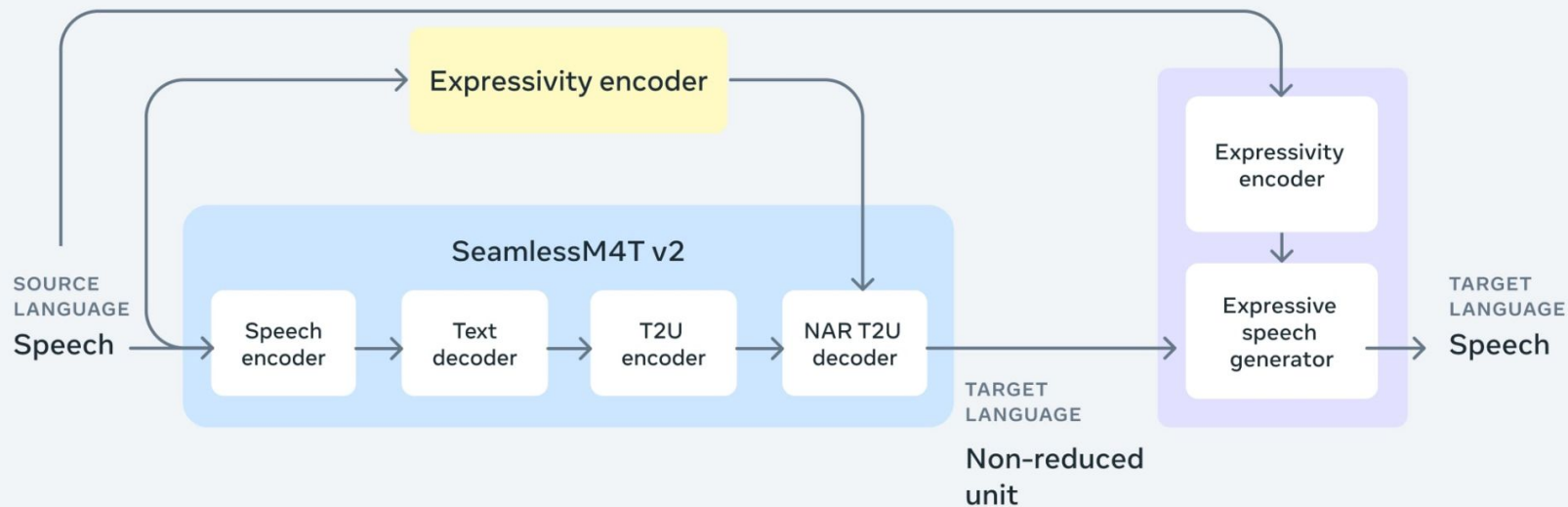
Joint speech and text machine translation for up to 100 languages

[SEAMLESS Communication Team](#)

[Nature](#) **637**, 587–593 (2025) | [Cite this article](#)

50k Accesses | 2 Citations | 568 Altmetric | [Metrics](#)





“a single model that supports speech-to-speech translation (101 to 36 languages)” [\[source\]](#)

THE BABEL FISH IS SMALL, YELLOW, LEECHLIKE, AND PROBABLY THE ODDEST THING IN THE UNIVERSE. IT FEEDS ON BRAIN WAVE ENERGY, ABSORBING ALL

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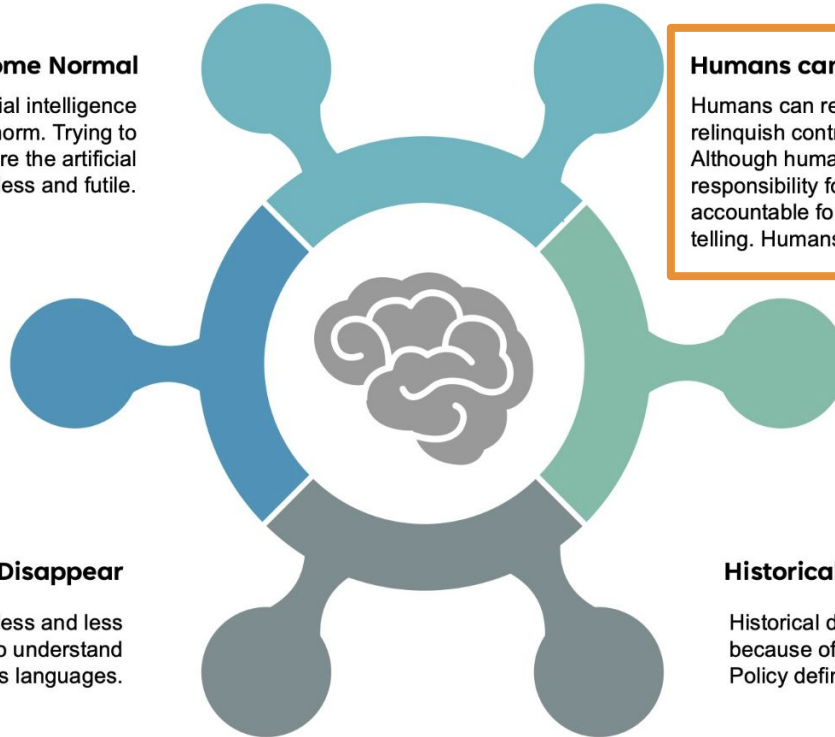
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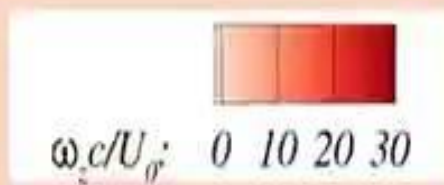
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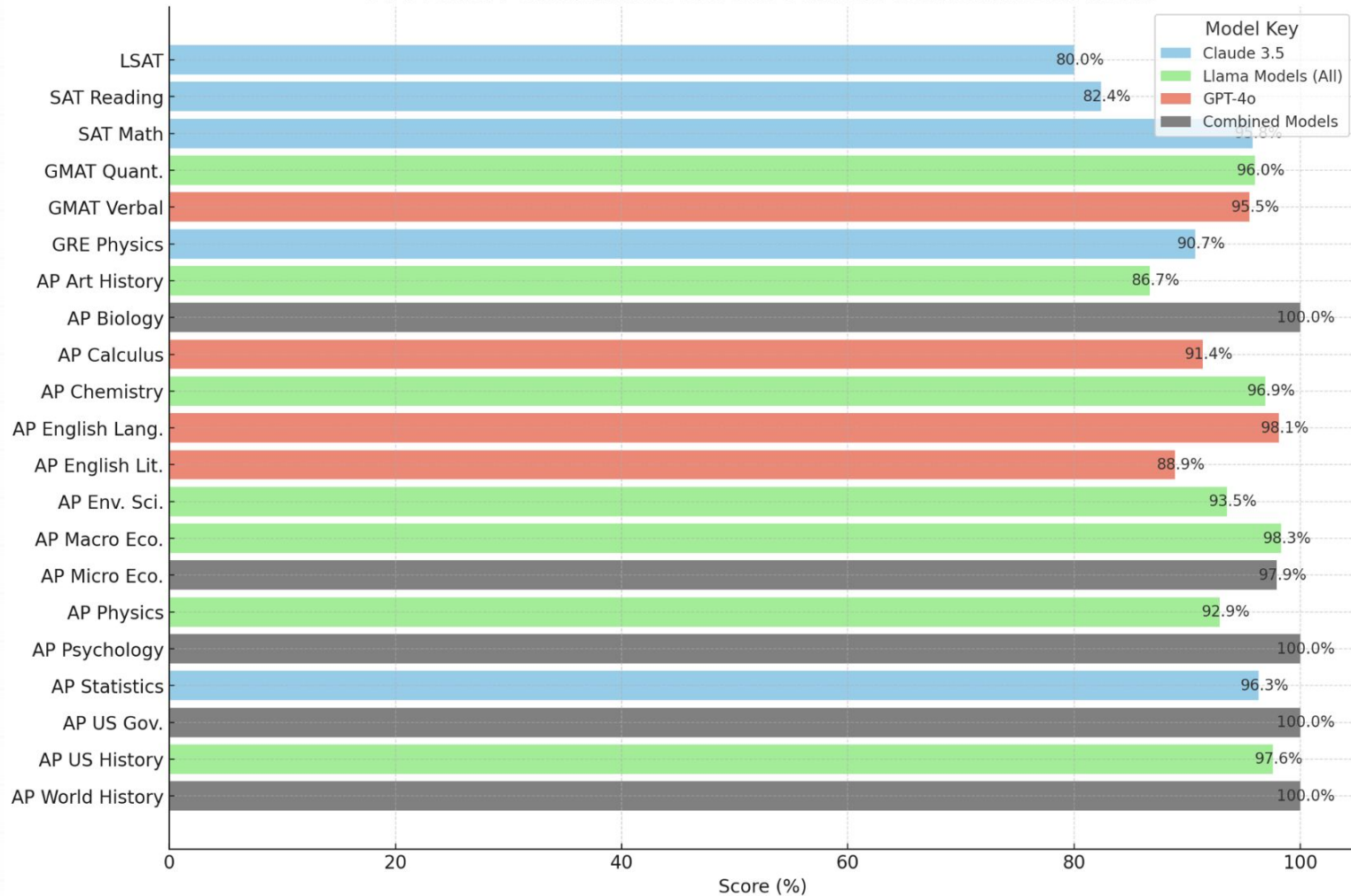
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Small differences,
even 2%,
can yield big changes



AI Model Performance Across Various Standardized Tests





Backwards Planning with Generative AI: Case Study Evidence from US K12 Teachers

40 Pages • Posted: 16 Sep 2024 • Last revised: 21 Jan 2025

Samantha Keppler

University of Michigan Stephen M. Ross School of Business

Wichinpong Park Sinchaisri

University of California, Berkeley - Operations and Information Technology Management Group

Clare Snyder

University of Michigan, Stephen M. Ross School of Business

Date Written: January 15, 2025

Abstract

Problem definition: Generative AI technologies can help workers do tasks faster and better. However, many workers must plan which tasks to do, in addition to doing them. A prime example are K12 teachers, who plan their teaching tasks (i.e., activities, quizzes, projects) working backwards from end-of-year goals defined by state standards (a process known as *backwards planning*). In this paper, we ask: How are teachers, who must both plan and do tasks, beginning to use generative AI? *Methodology/results:* We conduct a longitudinal case study of 24 US public school teachers (all new to AI), sampled to vary by subject area and grade level. During the 2023–2024 school year, we gather from these teachers 360 minutes of recorded observation of generative AI use for their own work (not predefined by us) involving over 200 inputted prompts (and associated responses), together with 29 in-depth interviews and 34 generative AI use surveys. Analyzing this data corpus, we find that over the year teachers separate into three groups: (1) those who seek generative AI input (i.e., thoughts or ideas about learning plans) and output (i.e., quizzes, worksheets), (2) those who only seek generative AI outputs, and (3) those not using generative AI. The teachers in the first group—but not the second group—report productivity gains in terms of workload and work quality. *Managerial implications:* Workers can use generative AI for known tasks (task-level) or for deciding which tasks to do (workflow-level). Task-level use may save time completing tasks and increase the number of tasks done, but workflow-level use can save time deliberating about which tasks to do and nudge people toward the “right” tasks. AI developers, particularly in the education sector, ought to design tools that go beyond task-level use and nudge people toward more effective and efficient workflows.

Keywords: generative AI, productivity, workflow, education operations, algorithm aversion

Suggested Citation:

Keppler, Samantha and Sinchaisri, Wichinpong and Snyder, Clare, Backwards Planning with Generative AI: Case Study Evidence from US K12 Teachers (January 15, 2025). Available at SSRN: <https://ssrn.com/abstract=4924786> or <http://dx.doi.org/10.2139/ssrn.4924786>



Figure 5 Generative AI in Backwards Planning Workflows

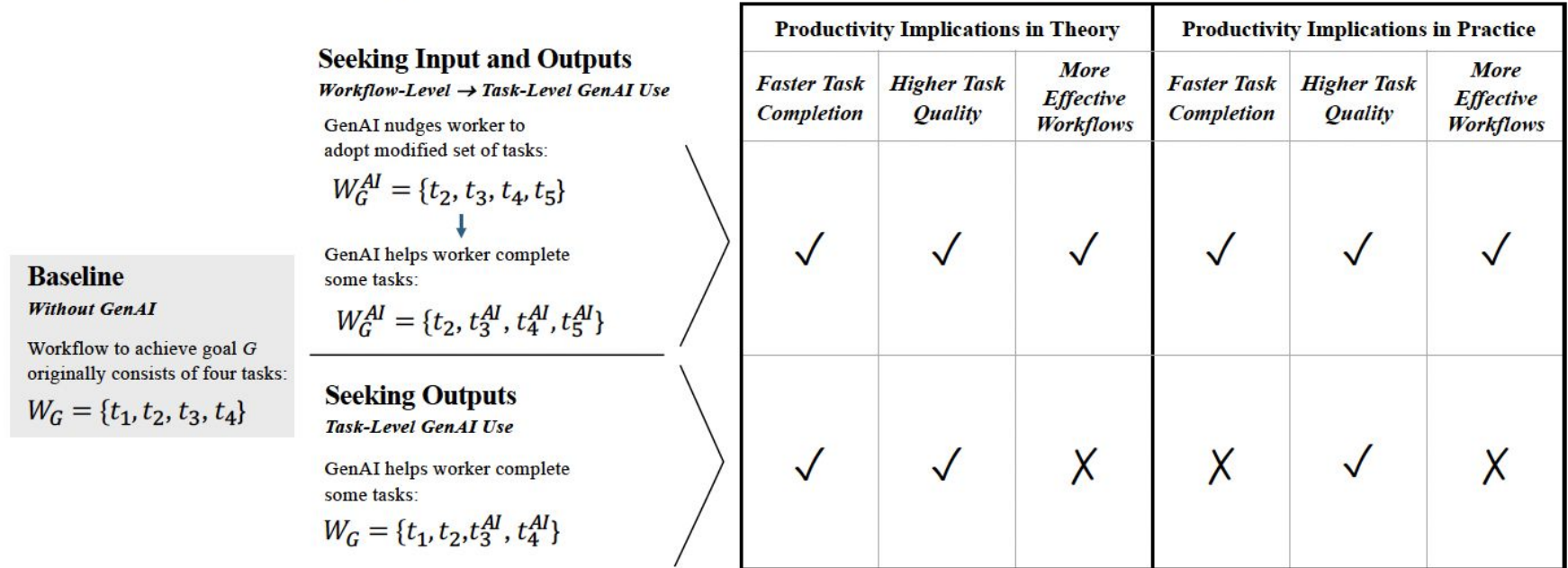


Figure 5 Generative AI in Backwards Planning Workflows

Seeking Input and Outputs

Workflow-Level > Task-Level GenAI Use

GenAI nudges worker to adopt modified set of tasks:

$$W_G^{AI} = \{t_2, t_3, t_4, t_5\}$$

GenAI helps worker complete some tasks:

$$W_G^{AI} = \{t_2, t_3^{AI}, t_4^{AI}, t_5^{AI}\}$$

Baseline

Without GenAI

Workflow to achieve goal G originally consists of four tasks:

$$W_G = \{t_1, t_2, t_3, t_4\}$$

Seeking Outputs

Task-Level GenAI Use

GenAI helps worker complete some tasks:

$$W_G = \{t_1, t_2, t_3^{AI}, t_4^{AI}\}$$

Productivity Implications in Theory			Productivity Implications in Practice		
<i>Faster Task Completion</i>	<i>Higher Task Quality</i>	<i>More Effective Workflows</i>	<i>Faster Task Completion</i>	<i>Higher Task Quality</i>	<i>More Effective Workflows</i>
✓	✓	✓	✓	✓	✓
✓	✓	✗	✗	✓	✗

“The teachers in the first group—but not the second group—report productivity gains in terms of workload and work quality”. ([source](#))



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Special Issue: Dynamic Large-Scale Swarm Systems in Urban Environments: Results from the DARPA OFFSET Program

Regular Article

Can A Single Human Supervise A Swarm of 100 Heterogeneous Robots?

Julie A. Adams¹ , Joshua Hamell²  and Phillip Walker² 

¹Collaborative Robotics and Intelligent Systems Institute, Oregon State University, Corvallis, OR 97331

²SIFT, LLC, Minneapolis, MN 55401

Abstract: An open research question has been whether a single human can supervise a true heterogeneous swarm of robots completing tasks in real-world environments. A general concern is whether or not the human's workload will be taxed to the breaking point. The Defense Advanced Research Projects Agency's OFFensive Swarm-Enabled Tactics (OFFSET) program's field exercises that occurred at U.S. Army urban training sites provided the opportunity to understand the impact of achieving such swarm deployments. The Command and Control of Aggregate Swarm Tactics integrator team's swarm commander uses the heterogeneous robot swarm to conduct relevant missions. During the final OFFSET program field exercise, the team collected objective and subjective metrics related to the swarm commander's human performance. A multidimensional workload algorithm that estimates the overall workload based on five components of workload was used to analyze the results. While the swarm commander's workload estimates did cross the overload threshold frequently, the swarm commander was able to successfully complete the missions, often under challenging operational conditions. The presented results demonstrate that a single human can deploy a swarm of 100 heterogeneous robots to conduct real-world missions.

Keywords: multi-dimensional workload, human-swarm interaction, DARPA OFFSET

Three Swarm Spots are observed in the field exercise at FORT



Multiple robot swarms are seen

“Autonomous Multi-Domain
Adaptive Swarms-of-Swarms”



“Hellscape Strategy”



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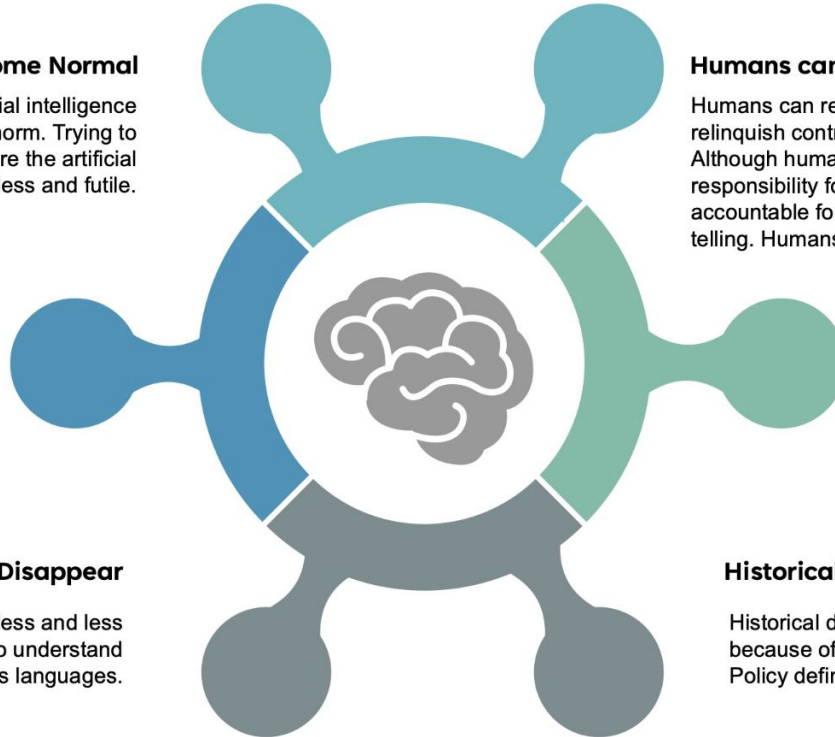
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Attribution & Citation & Detection

When prompted with “Is the left brain right brain divide real or a metaphor?” the ChatGPT-generated text indicated that although the two brain hemispheres are somewhat specialized, “the notation that people can be characterized as ‘left-brained’ or ‘right-brained’ is considered to be an oversimplification and a popular myth” (OpenAI, 2023).

Reference

OpenAI. (2023). *ChatGPT* (Mar 14 version) [Large language model]. <https://chat.openai.com/chat>

Lane 1 As

Examples: In-c
interviews, sup

Assured, sec

Assume that a
assessment ou
involve the use



Lane 2
assessments

laboration
is the norm

Declarations

Authors' Contributions

I am the sole author of this paper and am responsible for all content, errors, and omissions. All sources used in the preparation of this essay are cited in the reference list.

Use of Generative Artificial Intelligence Disclosure

The following generative AI tools provided writing and research assistance:

- Ongoing dialogue about concept explanations, phrasing, and general background research through GPT-4 (subscription version) and dialogue with the source texts using the AskYourPDF Research Assistant custom GPT. OpenAI. (2024). ChatGPT [Large language model]. <https://chat.openai.com>
- Ongoing dialogue about methodology and research topics through Perplexity.ai (subscription version) (2024). Perplexity.ai (AI Chatbot) [Large language model]. <https://www.perplexity.ai/>
- General proofreading assistance through Grammarly (subscription version) (2024). Grammarly (Apr 2 version) [Large language model]. <https://app.grammarly.com>
- Additional general proofreading assistance through Quillbot (subscription version) (2024). Quillbot (Apr 1 version) [Large language model]. <https://quillbot.com/paraphrasing-tool>

Funding

While I receive partial employer funding, there is no editorial impact, real or assumed.

Conflict of Interest

I have no conflict of interest, financial or otherwise, related to this paper.

At the end of every written assignment, you will include an Author's Note and an attribution of how you used AI on the assignment

Declarations

|

Author's Note:

I am the sole author of this work. All sources used in the preparation of this assignment are cited in the Work's Cited list.

Use of Generative Artificial Intelligence Disclosure:

Throughout the whole writing process (from brainstorming to final copy) I used AI tools to do the following:

- ☐ Generating ideas in the brainstorming phase using _____
- ☐ Finding evidence using _____
- ☐ Organizing ideas using _____
- ☐ Analysis using _____
- ☐ Editing and/or proofreading using _____
- ☐ Citations creation using _____
- ☐ Formatting using _____
- ☐ Other _____

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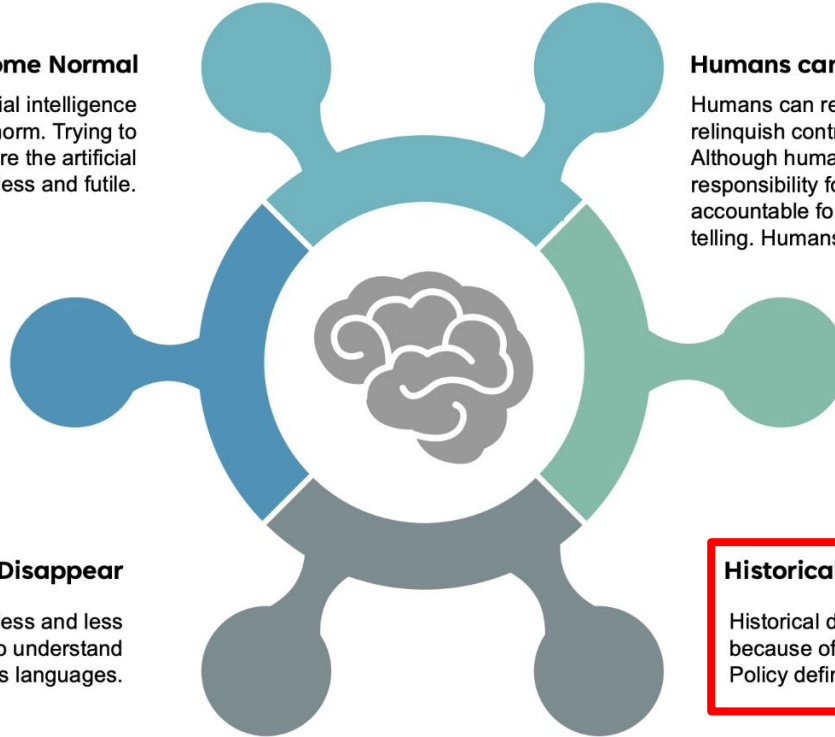
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Sami (they/them)
Grade 10 AI student

Wednesday
Nov 13



- **Overdue Personal Response: Mapa del cuento**
Spanish, Level 2
- **Overdue Homework: PW Check - Pg. 7,8,9 & 13,1...**
Principles of Mathematics

Today A

- 8:50AM **Planned Absence**
Travel Ed - Section 2
- DUE: 9:16AM **Homework: PW Check - Pg. 21,22,2...**
Principles of Mathematics
- 8:50AM **Canadian History Since WW 1 (Tra...**
CHC2DT2 📍 Rm. 204
- 9:00AM **OSSLT**
Travel Ed - Section 2 📍 Davies Centre
- 8:50AM **Travel Ed - Section 2**
Absent Resolved ENG2DT2 📍 Rm. 204
- 10:30AM **Science**
Absent Resolved SNC2D4 📍 Rm. 706
- 11:40AM **Civics and Citizenship (Fall)**
Late CHV2OF1 📍 Rm. 803
- 11:40AM **Test: Governance Test**
Civics and Citizenship (Fall)
- DUE: 11:40AM **Assignment: Governance Notes**
Civics and Citizenship (Fall)
- 1:35PM **Drama**
Present ADA3M1 📍 Rm. 903

Drama

ADA3M1



Civics and Citizenship (Fall)

CHV2OF1



Spanish, Level 2

LWSCU1



Financial Accounting Fundam...

BAF3M3



Travel Ed - Section 2

ENG2DT2



Canadian History Since WW 1...

CHC2DT2



Science

SNC2D4



Principles of Mathematics

MPM2D6



Forces of Nature

CGF3M4



Overall
18 late, 2 absent

79.5%



SAMI the AI Grade 10 Student

By MICHAEL HEALY 人

A relatable AI at a Grade 10 level for answering questions and essay writing.

What's the best way to start a history essay?

Can you explain mitosis in simple terms?

How do I solve this algebra equation?

What's a good way to remember the elements of the...

Message SAMI the AI Grade 10 Student



Get citation



Grade 10 History Test. Explain the term “primary source”

Answer 1: A primary source is a firsthand historical document or object from the time period being studied, providing direct evidence and deeper understanding for historians.

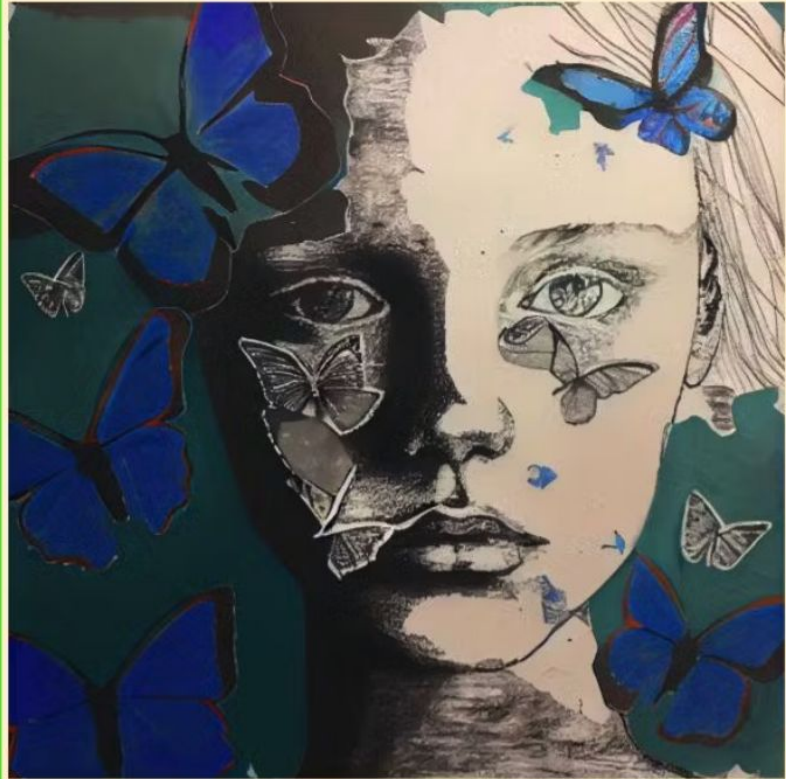
- ChatGPT

Answer 2: A primary source is a source regarding an event created at the time of the event. It is an eye-witness-based source. Primary Sources include diaries, paintings, letters, and more. - TCS Grade History Student

Image 1 - Created by TCS Visual Arts student



Image 2 - Image created by Midjourney AI



Sami



Made with ChatGPT
chatgpt.com/voice

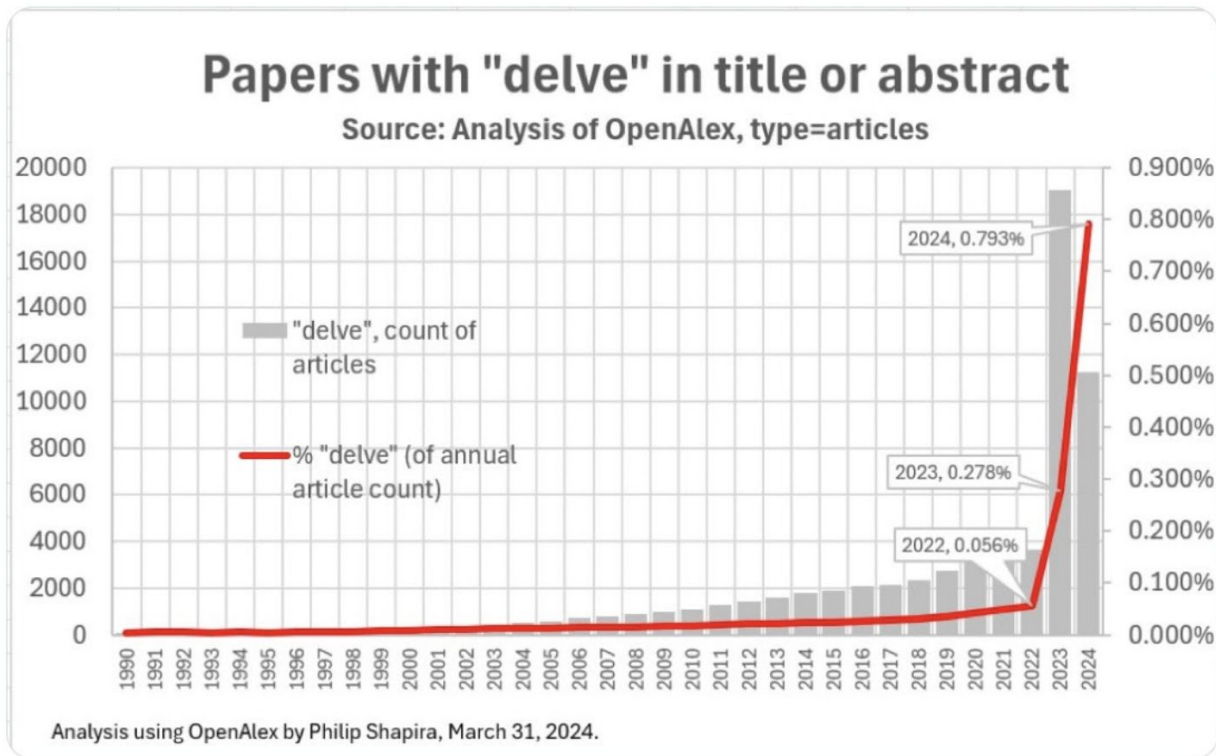
Sami



Paul Graham  @paulg · 1d

...

My point here is not that I dislike "delve," though I do, but that it's a sign that text was written by ChatGPT.



 379

 981

 3.6K

 841K



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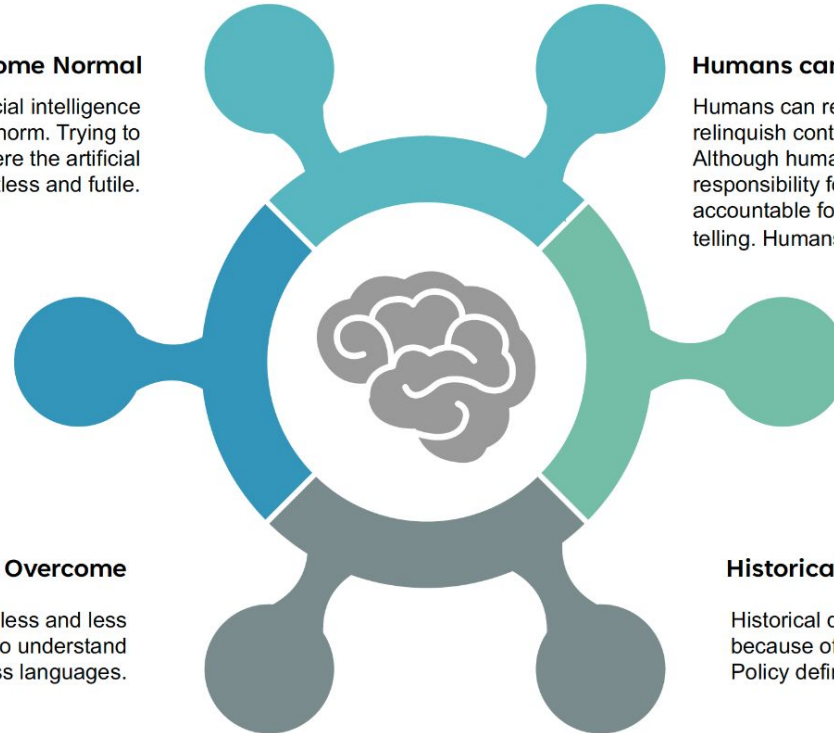
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Annual Conference



Integrity is Fair

ICAI 2025 Annual Conference

Chicago, IL

Thursday
March 6

8:00-5:00pm Registration / Check-in Open
9:00-4:00pm Canadian Consortium
 9:00-11:30am Pre-Conference Session 1
 9:00-11:30am Pre-Conference Session 2
 12:00-1:00pm Lunch on Own
 1:30-4:00pm Pre-Conference Session 3
 1:30-4:00pm Pre-Conference Session 4

Friday
March 7

9:00-11:45am Registration / Check-in Open
 11:00-11:45am New Member Session
 12:00-1:30pm Opening Welcome Lunch with Keynote Speaker
 1:45-2:25pm Session 1
 2:35-3:15pm Session 2
 3:35-4:55pm ICAI Town Hall Session / Awards
 5:00-6:30pm ICAI Reception (Happy Hour / Passed Appetizers)
 7:00 PM Dinner on your own

Saturday
March 8

8:00-9:15am Breakfast with our Sponsors
 8:40-9:20am Session 3
 9:30-10:10am Session 4
 10:30-11:45am Poster Session
 11:45-1:10pm Lunch with Gold Sponsor Spotlight & ICAI 2026 Reveal
 1:10-1:50pm Session 5
 2:00-2:40pm Session 6
 2:55-3:35pm Session 7
 3:45-4:25pm Session 8
 4:30-5:15pm Committee Interest meetings
 6:15-7:00pm ICAI Coordinated Dine Around

Sunday
March 9

9:00-10:00am Breakfast
 10:00-10:55am Facilitated Breakouts by Topic
 11:00-11:55am Facilitated Breakouts by Topic



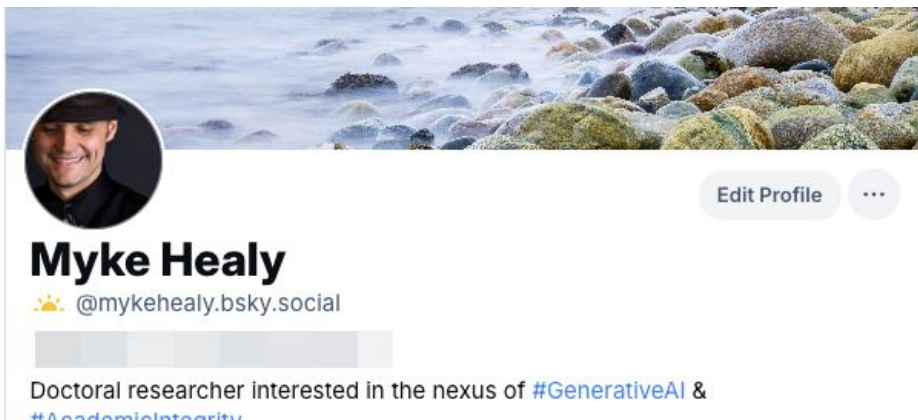
Future Casting

or how I learned to stop worrying and love algorithmic opportunities



Myke Healy [he/him]
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Assistant Head - Teaching & Learning
Trinity College School

Doctoral Student
Werklund School of Education





CIS Ontario

CONNECTS UNCONFERENCE 2025

Rethink. Measure. Connect.

Wifi:HYATT WIFI Password: CANADA2025 (ALL CAPS)

THANK YOU!

Strand Facilitators & Organizing Committee

Strand 1

Afzal Shaikh
(The York School)
&
Emilia Martin
(Upper Canada College)
&
Andrew Petrolito
(Trinity College School)

Strand 2

Krista Koekoek &
Lindsay Norberg
(Havergal College)
&
Shauna Martini
(Lauremont School)
&
Justin Medved
(The York School)

Strand 3

Garth Nichols
(Havergal College)
&
Maggie Houston-White
(Havergal College)

Strand 4

Mark Dilworth
(Country Day School)
&
John Buchanan
(Hillfield Strathallan College)

How Did **WE** Do?

How Did **YOU** Do?



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