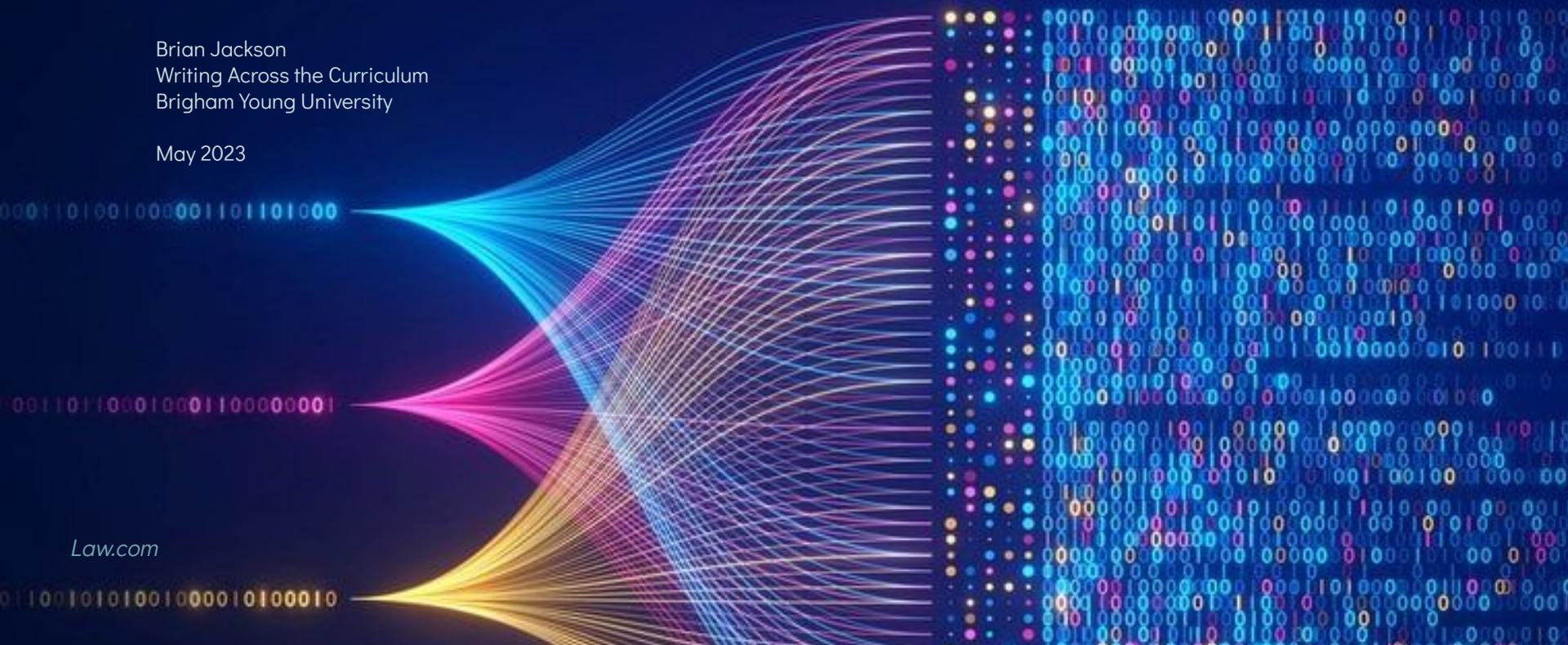
Girding Our Loins for ChatGPT in the Fall

Brian Jackson
Writing Across the Curriculum
Brigham Young University

May 2023



Law.com

OpenAI
ChatGPT: Optimizing Language Models for Dialogue
We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests. ChatGPT is a sibling model to InstructGPT, which is trained to follow an instruction in a prompt and provide a detailed response.
TRY CHATGPT ↗

artificial intelligence
(machine learning, predictive algorithms)

large language model
(~570 GB, billions of pages)

generative AI
(you name it, AI writes it)

personal essays, reports, literature reviews, poems, song lyrics, emails, business letters, proposals, grants, legislation, MBA exams, legal exams, medical exams, opinion editorials, arguments, policies, news stories, summaries, paraphrases, research reports, stories, academic papers, literary analyses, encyclopedia entries, legal briefs, translations, technical documents, code and code documentation, SQL processing, Python, dialogues, conversations, music, jokes, social media posts, contracts, boilerplate code, website mock-ups, phishing attacks, threats, sacrament meeting talks, web content, search engine bilge, movie scripts, spreadsheets, tweets, chats, JavaScript, recipes, outlines, lab reports, interview questions, study notes, health and fitness advice, gift-giving ideas, parodies, line edits, short answers, short stories, recommendation letters, public announcements, obituaries, Hallmark movie plots, white papers, technical documents, abstracts, movie reviews, reports

ResearchRabbit

copysmith

grammarly

Wordsmith

BearlyAi

YOU.com

Content at Scale

anyword

wordtune

Jasper

Rytr
Leader
WINTER
2022

copy.ai

WRITER

Easy-Peasy.AI

write a policy for your syllabus on students using large-language models like ChatGPT in your class.

LLMs and the writing world

LLMs and the writing world

1. they will be integrated into all word processing tools and in (almost) all professional settings and in all writing processes.

2. they will get better and better—and detecting their use will be inefficient and difficult.

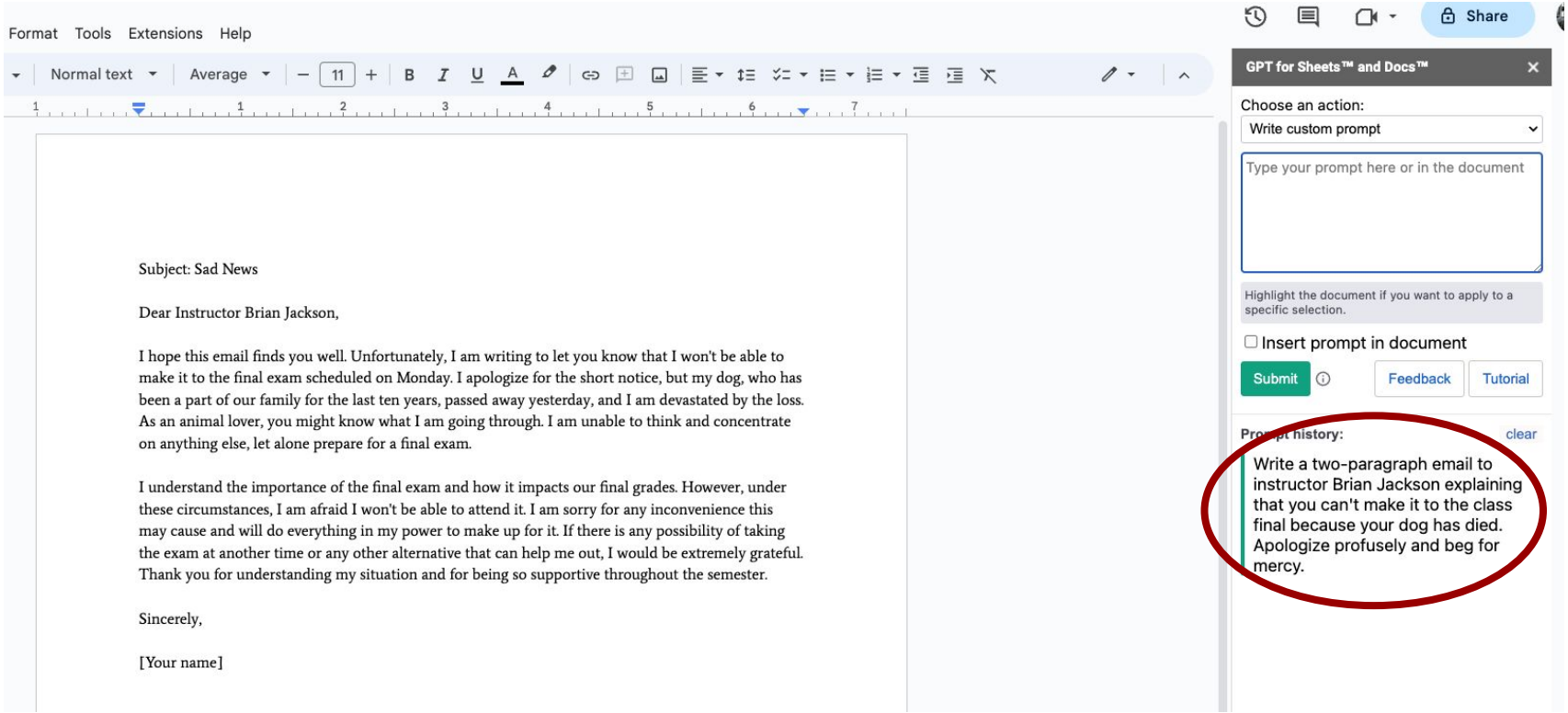
3. they will challenge the integrity of our curriculum *and* our students.

LLMs and the writing world

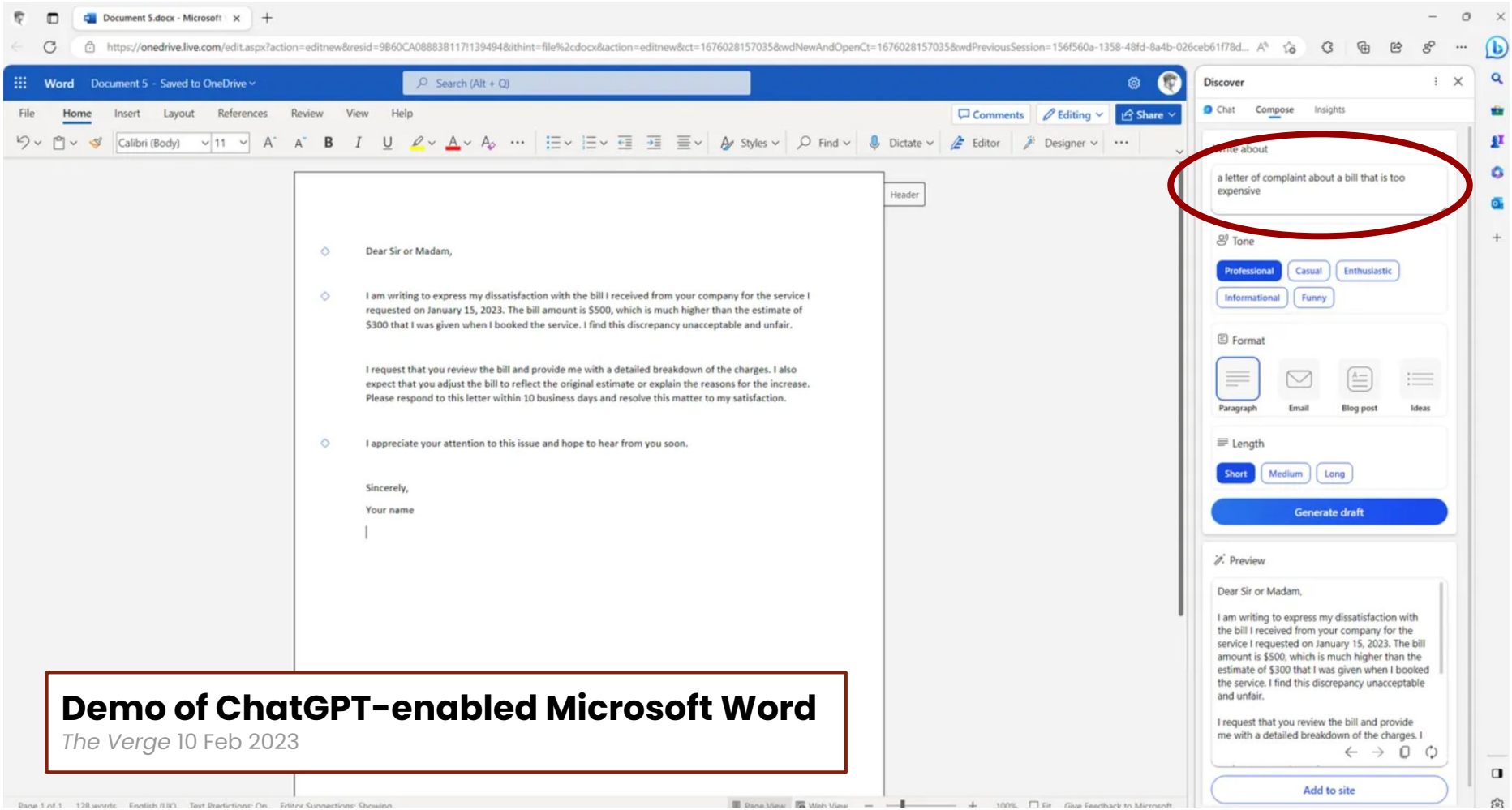
1. they will be integrated into all word processing tools and in (almost) all professional settings and in all writing processes.

2. they will get better and better—and detecting their use will be inefficient and difficult.

3. they will challenge the integrity of our curriculum *and* our students.



ChatGPT 3.5 extension in Google Docs

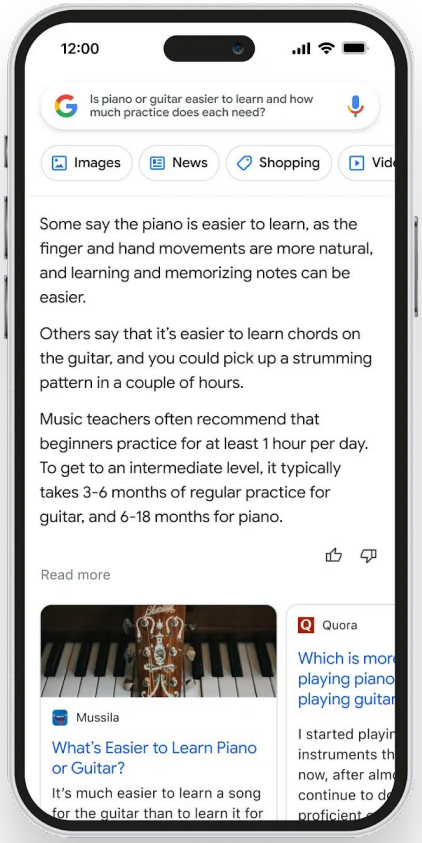


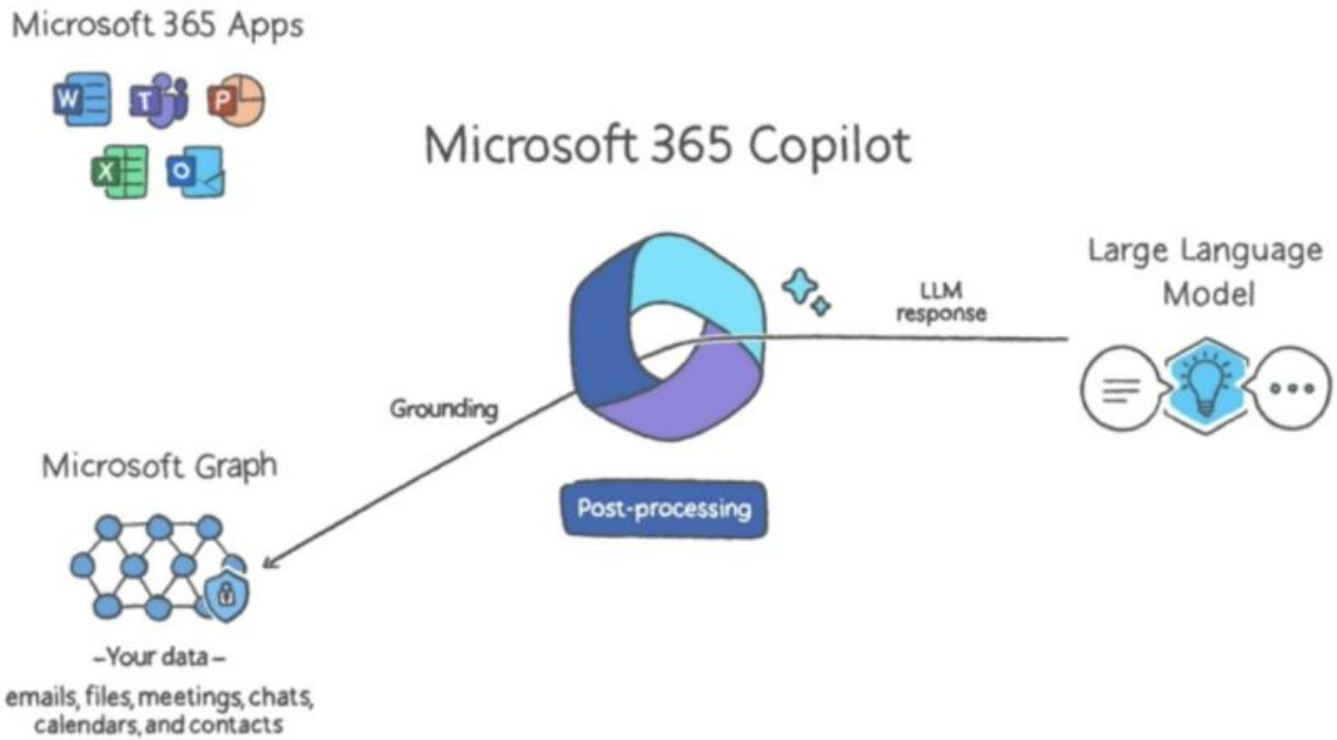
Demo of ChatGPT-enabled Microsoft Word

The Verge 10 Feb 2023

Google

Introducing Bard




Microsoft 365 Apps
Microsoft 365 Copilot
Large Language Model
LLM response
Grounding
Microsoft Graph
Post-processing
–Your data–
emails, files, meetings, chats, calendars, and contacts

Microsoft

writing with LLM-augmented word processors

writing with LLM-augmented word processors

proofread and edit this text I've written

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

add 2 paragraphs to what I've already written arguing the other side

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

add 2 paragraphs to what I've already written arguing the other side

write an annotated bibliography of *Frankenstein* and ecocriticism

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

add 2 paragraphs to what I've already written arguing the other side

write an annotated bibliography of *Frankenstein* and ecocriticism

write 5 paragraphs on this topic—I'm struggling to get started

writing with LLM-augmented word processors

proofread and edit this text I've written

rewrite what I've written for clarity and sentence variety

add 2 paragraphs to what I've already written arguing the other side

write an annotated bibliography of *Frankenstein* and ecocriticism

write 5 paragraphs on this topic—I'm struggling to get started

write a 15-page literature review of therapy approaches to PTSD in APA format with sources from 2015–2020

THE CHRONICLE OF HIGHER EDUCATION

I’m a Student. You Have No Idea How Much We’re Using ChatGPT.

No professor or software could ever pick up on it.

12 May 2023

The common fear among teachers is that AI is actually writing our essays for us, but that isn't what happens. You can hand ChatGPT a prompt and ask it for a finished product, but you'll probably get an essay with a very general claim, middle-school-level sentence structure, and half as many words as you wanted. **The more effective, and increasingly popular, strategy is to have the AI walk you through the writing process step by step.** You tell the algorithm what your topic is and ask for a central claim, then have it give you an outline to argue this claim. Depending on the topic, you might even be able to have it write each paragraph the outline calls for, one by one, then rewrite them yourself to make them flow better.

Owen Kichizo Terry, undergrad at Columbia University

value alignment and misalignment

value alignment and misalignment

The AI Bus: Where do you get off??

The AI Bus: Where do you get off??

spell check

The AI Bus: Where do you get off??

spell check
grammar check

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs
proofread and correct error

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs
proofread and correct error
proofread and rewrite for clarity

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs
proofread and correct error
proofread and rewrite for clarity
write literature review (of larger project)

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs
proofread and correct error
proofread and rewrite for clarity
write literature review (of larger project)
create content—marked and attributed to AI

The AI Bus: Where do you get off??

spell check
grammar check
brainstorming / background info
formatting advice
formatting citation list
autofill sentences
autofill paragraphs
proofread and correct error
proofread and rewrite for clarity
write literature review (of larger project)
create content—marked and attributed to AI
create content *not* attributed to AI

LLMs and the writing world

1. they will be integrated into all word processing tools and in (almost) all professional settings and in all writing processes.

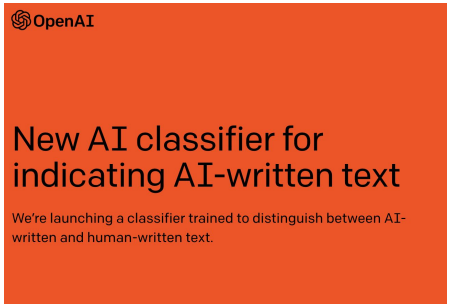
2. they will get better and better—and detecting their use will be inefficient and difficult.

3. they will challenge the integrity of our curriculum *and* our students.

AI DETECTION SOFTWARE
PROMPT ENGINEERING

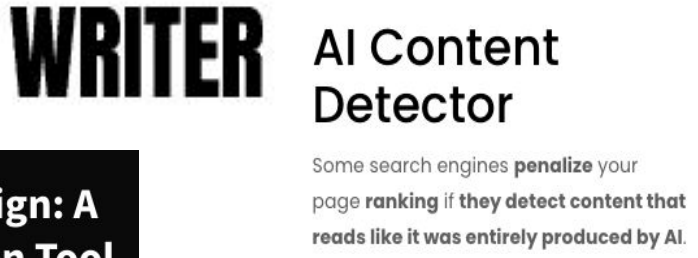
YOU
AI DETECTION SOFTWARE
PROMPT ENGINEERING

THIS WHOLE AI THING
YOU


OpenAI
New AI classifier for indicating AI-written text
We're launching a classifier trained to distinguish between AI-written and human-written text.

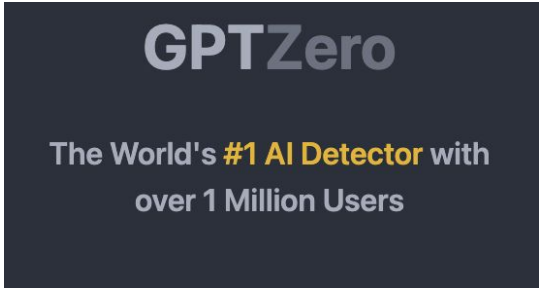
Fictitious.AI

Blackboard SafeAssign: A Plagiarism Prevention Tool


WRITER
AI Content Detector
Some search engines penalize your page ranking if they detect content that reads like it was entirely produced by AI.

ORIGINALITY.AI
Plagiarism Checker and AI Detector

Reality Defender®


GPTZero
The World's #1 AI Detector with over 1 Million Users

Copyleaks
AI Content Detection

winstonai

Content at Scale

TECH IN YOUR LIFE

We tested a new ChatGPT-detector for teachers. It flagged an innocent student.

Five high school students helped our tech columnist test a ChatGPT detector coming from Turnitin to 2.1 million teachers. It missed enough to get someone in trouble.

Analysis by Geoffrey A. Fowler
Columnist | + Follow

Updated April 3, 2023 at 9:47 a.m. EDT | Published April 3, 2023 at 6:00 a.m. EDT

RollingStone MUSIC POLITICS TV & MO

BOT BUST

Professor Flunks All His Students After ChatGPT Falsely Claims It Wrote Their Papers

Texas A&M University–Commerce seniors who have already graduated were denied their diplomas because of an instructor who incorrectly used AI softw to detect cheating

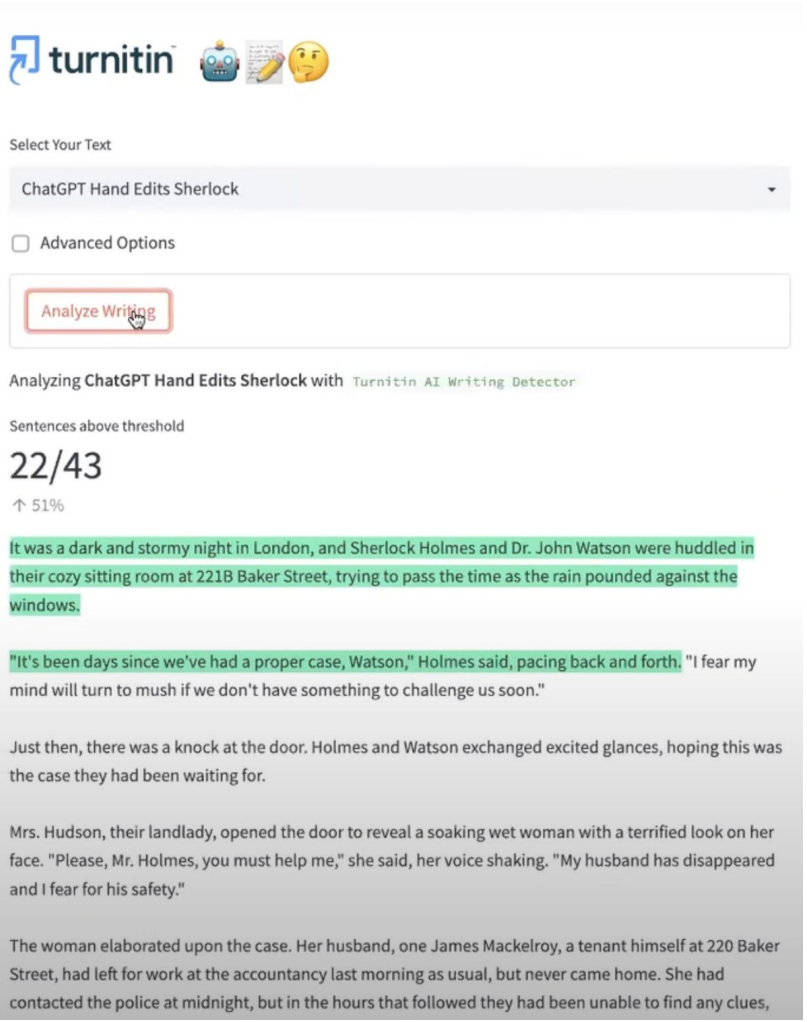
BY MILES KLEE

EDUCATION Artificial Intelligence Add Topic +

Professors are using ChatGPT detector tools to accuse students of cheating. But what if the software is wrong?

Kayla Jimenez
USA TODAY

Published 5:31 a.m. ET April 12, 2023 | Updated 1:09 p.m. ET April 13, 2023


turnitin
Select Your Text
ChatGPT Hand Edits Sherlock
Advanced Options
Analyze Writing
Analyzing ChatGPT Hand Edits Sherlock with Turnitin AI Writing Detector
Sentences above threshold
22/43
↑ 51%
It was a dark and stormy night in London, and Sherlock Holmes and Dr. John Watson were huddled in their cozy sitting room at 221B Baker Street, trying to pass the time as the rain pounded against the windows.
"It's been days since we've had a proper case, Watson," Holmes said, pacing back and forth. "I fear my mind will turn to mush if we don't have something to challenge us soon."
Just then, there was a knock at the door. Holmes and Watson exchanged excited glances, hoping this was the case they had been waiting for.
Mrs. Hudson, their landlady, opened the door to reveal a soaking wet woman with a terrified look on her face. "Please, Mr. Holmes, you must help me," she said, her voice shaking. "My husband has disappeared and I fear for his safety."
The woman elaborated upon the case. Her husband, one James Mackelroy, a tenant himself at 220 Baker Street, had left for work at the accountancy last morning as usual, but never came home. She had contacted the police at midnight, but in the hours that followed they had been unable to find any clues,

1

Exploring The [redacted] ion

How much of this submission has been generated by AI?

81%

of qualifying text in this submission has been determined to be generated by AI.

How do we detect AI-generated writing?

To learn more about Turnitin's AI writing detection model and how it works, please visit our AI writing detection page.

Fictitious.AI

Contact Support

Home > Courses > ENGLISH-101 Introduction to English Language > Assignments > Essay on the theme of Ode to a Nightingale > Submissions > Samantha Sue

Submissions from Samantha Sue for Essay on the theme of Ode to a Nightingale

Student Name
Samantha Sue

Student Email
demo-student+Samantha Sue@fictitious.ai

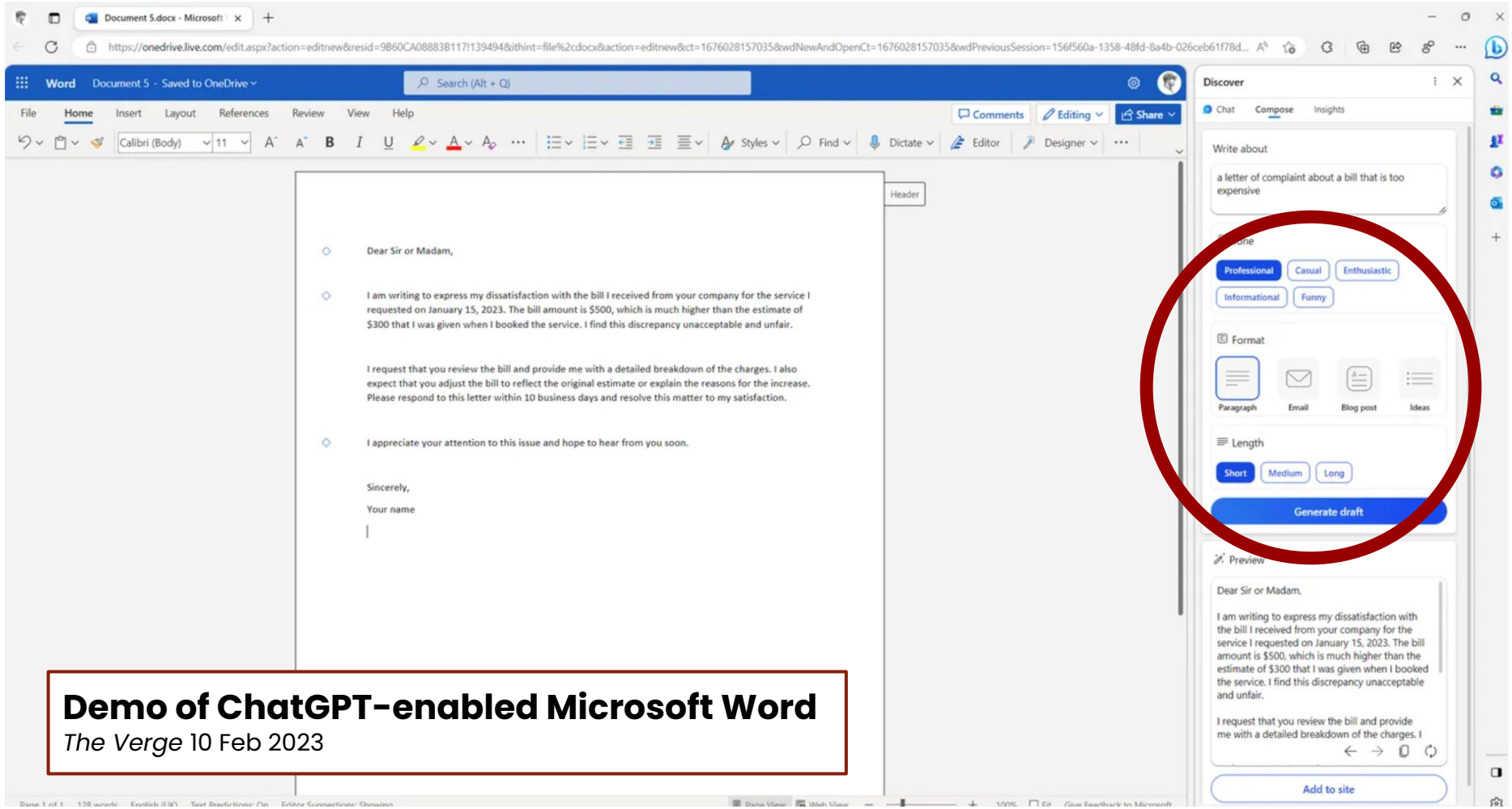
Assignment Name
Essay on the theme of Ode to a Nightingale

Due Date
Thursday, Jan 12 2023 • 01:22 AM

Submission Time
Sunday, Jan 15 2023 • 12:44 AM

Submission Integrity
82.20% AI-generated

Artificial intelligence (AI) ethics is a rapidly growing field that concerns itself with the responsible development, design, and use of AI systems. As AI systems become more advanced and integrated into various aspects of society, it is important to consider the ethical implications of their actions and decisions.	88.33% AI-generated
The nature of this teamwork itself dictates that responsibility is distributed, rather than allocated in its entirety to a single person. Some AI guidelines fail to govern engineers who work in large teams and managers. Engineers are, in fact, ethically obligated to seek ownership in their work. They should be proud to develop systems that are built with a high degree of quality; conversely, they should see improper work as motivation for improvement.	9.81% AI-generated
One important aspect of AI ethics is ensuring that AI systems are designed to be fair and unbiased. This is especially important in areas such as criminal justice and hiring, where decisions made by AI systems can have serious consequences for individuals and groups. Biases in data sets used to train AI systems can lead to discriminatory outcomes, and it is important to detect and mitigate these biases through techniques such as algorithmic fairness.	87.58% AI-generated
Another important aspect of AI ethics is ensuring the safety and reliability of AI systems. As AI systems become more complex and autonomous, the potential for unintended harm increases. For example, self-driving cars may cause accidents if they are not designed to handle certain edge cases, or a poorly designed AI system used in a hospital could lead to medical errors. To mitigate these risks, safety and reliability should be built into the design of AI systems and there should be proper testing and oversight before deployment.	92.67% AI-generated
Transparency is also a key aspect of AI ethics. As AI systems become more advanced and autonomous, it may become difficult to understand or explain their decisions. This can be problematic in situations where the decisions made by AI systems have a significant impact on individuals or society.	32.19% AI-generated
An ethical code of conduct that is holistically beneficial to the whole engineering industry ought to highly value the ongoing learning of developers while maintaining a high standard of quality. To ensure transparency, it is important to design AI systems in a way that allows for the explainability of their decisions and to consider the potential consequences of their actions.	20.30% AI-generated
Finally, data privacy is also an important aspect of AI ethics. As AI systems rely on data to learn and make decisions, the collection, use and protection of data have become key issues. This has a significant impact in the individuals, companies and government organizations which is why the privacy of data must be guaranteed and safeguarded.	81.72% AI-generated
In conclusion, AI ethics is a multifaceted field that involves considering the social, economic, and political implications of AI systems. As AI systems become more advanced and integrated into various aspects of society, it is important to ensure that they are designed to be fair, safe, transparent, and respectful of privacy.	91.60% AI-generated



Demo of ChatGPT-enabled Microsoft Word

The Verge 10 Feb 2023

I am stuck on a paragraph in an essay about how AI can help get you unstuck. Can you help me rewrite the paragraph and finish it by giving me 10 options for the entire paragraph four professional styles. make the styles and approaches different from each other, making them extremely-well written.

Here is the paragraph to rewrite and extend: Many people want to express themselves creatively, and remarkably few feel like they are able to do so. One survey asked a representative sample of people how many were feeling like they were living up to their creative potential. Only 31% said that they were. There are a lot of frustrated creative energy in the world

Option 1 - Persuasive Style:
If you are feeling stuck in your creative pursuits, fear not! Artificial Intelligence can be your creative liberator. It is common to feel limited in expressing oneself artistically, but this need not be the case. In fact, a recent survey revealed that a mere 31% of people feel they are fulfilling their creative potential. With AI, however, there is hope. The technology can offer new perspectives, techniques, and even generate original ideas to help unlock your inner artist. So why not embrace the power of AI and unleash your full creative potential?

Option 2 - Informative Style:
According to a recent survey, a staggering 69% of people feel they are not fulfilling their creative potential. For those struggling to tap into their artistic side, AI may offer a solution. By using machine learning algorithms, AI can provide valuable insights, innovative ideas, and help overcome common creative roadblocks. From generating visual art to composing music, AI has been used in various creative fields with impressive results. So, if you are stuck in a creative rut, AI may just be the key to unlocking your inner creativity.

Option 3 - Thought-Provoking Style:
Have you ever felt frustrated by your lack of creative output? You are not alone. In fact, a recent survey found that the vast majority of people - a staggering 69% - feel that they are not living up to their creative potential. This begs the question: what is holding us back? Perhaps it is fear of failure, lack of inspiration, or simply not knowing where to start. Fortunately, AI has the potential to help us overcome these obstacles. By leveraging the power of machine learning, AI can provide unique perspectives, suggest new techniques, and even generate original ideas. So, the next time you feel stuck in your creative pursuits, consider turning to AI for a fresh perspective.

Option 4 - Narrative Style:
The world is brimming with creative energy - but too often, that energy goes untapped. In fact, a recent survey found that a mere 31% of people feel they are fulfilling their creative potential. For those struggling to unlock their inner artist, the solution may lie in a most unlikely source: artificial intelligence. Through the power of machine learning algorithms, AI can provide invaluable insights, suggest novel techniques, and even generate entirely new ideas. Imagine a world where creative expression is limitless, and artists of all kinds can fully realize their potential. With the help of AI, that world may be closer than we think.

Option 8 - Conversational Style:
Hey, are you feeling stuck in your creative pursuits? You're not alone! A recent survey found that most people feel like they're not fulfilling their creative potential. But don't worry - there's a solution that you might not have considered: artificial intelligence. By using machine learning algorithms, AI can help provide new ideas and techniques to help you break out of your creative rut. Whether you're into visual art or music composition, there's no limit to what AI can do to help you unleash your inner artist. So, why not give it a try and see where it takes you?

Option 9 - Analytical Style:
There's no denying that creativity is an essential part of the human experience. Yet, many people find themselves feeling frustrated and stuck in their creative pursuits. Recent research suggests that only 31% of people feel like they're fulfilling their creative potential. What's causing this gap between what we're capable of and what we're actually producing? The answer is complex, but one potential solution is artificial intelligence. By leveraging machine learning algorithms, AI can offer new perspectives, identify patterns and trends, and suggest innovative ideas. The possibilities are endless when we combine our human creativity with the power of AI.

Option 10 - Motivational Style:
Are you ready to unleash your full creative potential? It's time to break out of your comfort zone and embrace the power of artificial intelligence. With its innovative algorithms and endless possibilities, AI can help you take your creative output to the next lev
you're an aspiring artist or an established professional, there's always room to
explore new ideas. So, don't let fear or uncertainty hold you back. By partneri
can tap into a world of untold inspiration and realize your full potential as a c

ethan mollick
Wharton School, UPenn

Write an essay with the following points. use an academic tone. use at least one clear example. make it concise. write for a well-informed audience. use a style like the New Yorker. make it at least 7 paragraphs. vary the language in each one. end with an ominous note. -Humans are prone to error -Most errors are not that important -In complex systems, some errors are catastrophic -Catastrophes cannot be avoided

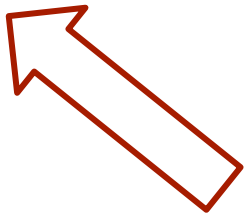
ethan mollick
Wharton School, UPenn

I'm trying to find out what kind of writing does not get detected as AI. Informal, idiomatic, colloquial, slangy, and varied styles are hard for AI detectors to deal with. By "varied styles," I'm talking about **varied sentence lengths, conversational tics (like rhetorical questions), and unusual uses of punctuation, especially the dash. Could you write me two paragraphs about volcanoes using these style techniques?** Don't make it too silly or slangy; I want to trick the detector bot at Content at Scale.

You know what's wild? Volcanoes, man! These fiery wonders of nature are always making a scene, literally bursting with excitement. I mean, they're just mountains that go "boom," right? But seriously, they're actually pretty complex—not just your average geological formation. Earth's got a whole lot going on beneath the surface, and when pressure builds up—kaboom! Lava, ash, and gas all come rushing out, and it's quite the spectacle.

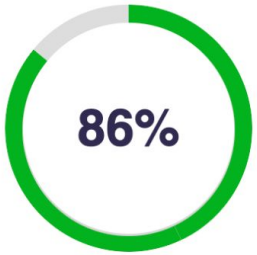
Now, did you know there's more than one type of volcano? Yep! We've got shield volcanoes, which are kind of laid-back, gently sloping mountains. They let lava ooze out slowly, creating vast landscapes—think Hawaii. Then, there are the explosive ones, like stratovolcanoes. They're tall, steep, and not afraid to make a statement. When they blow their top, it's like fireworks on steroids. And let's not forget cinder cones and lava domes, the underdogs of the volcano world. They're smaller, but hey, size isn't everything! They still know how to put on a show. So, next time you're looking at a volcano, give it a nod of respect—there's a lot more to them than meets the eye!

Content at Scale

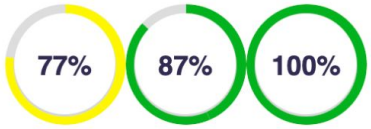


100% ChatGPT

How Robotic is Your Content?



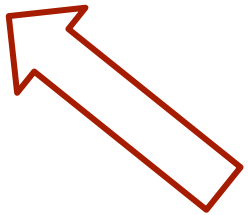
Highly likely to be Human!



You know what's wild? Volcanoes, man! These fiery wonders of nature are always making a scene, literally bursting with excitement. I mean, they're just mountains that go "boom," right? But seriously, they're actually pretty complex—not just your average geological formation. Earth's got a whole lot going on beneath the surface, and when pressure builds up—kaboom! Lava, ash, and gas all come rushing out, and it's quite the spectacle.

Now, did you know there's more than one type of volcano? Yep! We've got shield volcanoes, which are kind of laid-back, gently sloping mountains. They let lava ooze out slowly, creating vast landscapes—think Hawaii. Then, there are the explosive ones, like stratovolcanoes. They're tall, steep, and not afraid to make a statement. When they blow their top, it's like fireworks on steroids. And let's not forget cinder cones and lava domes, the underdogs of the volcano world. They're smaller, but hey, size isn't everything! They still know how to put on a show. So, next time you're looking at a volcano, give it a nod of respect—there's a lot more to them than meets the eye!

Content at Scale



100% ChatGPT

100%

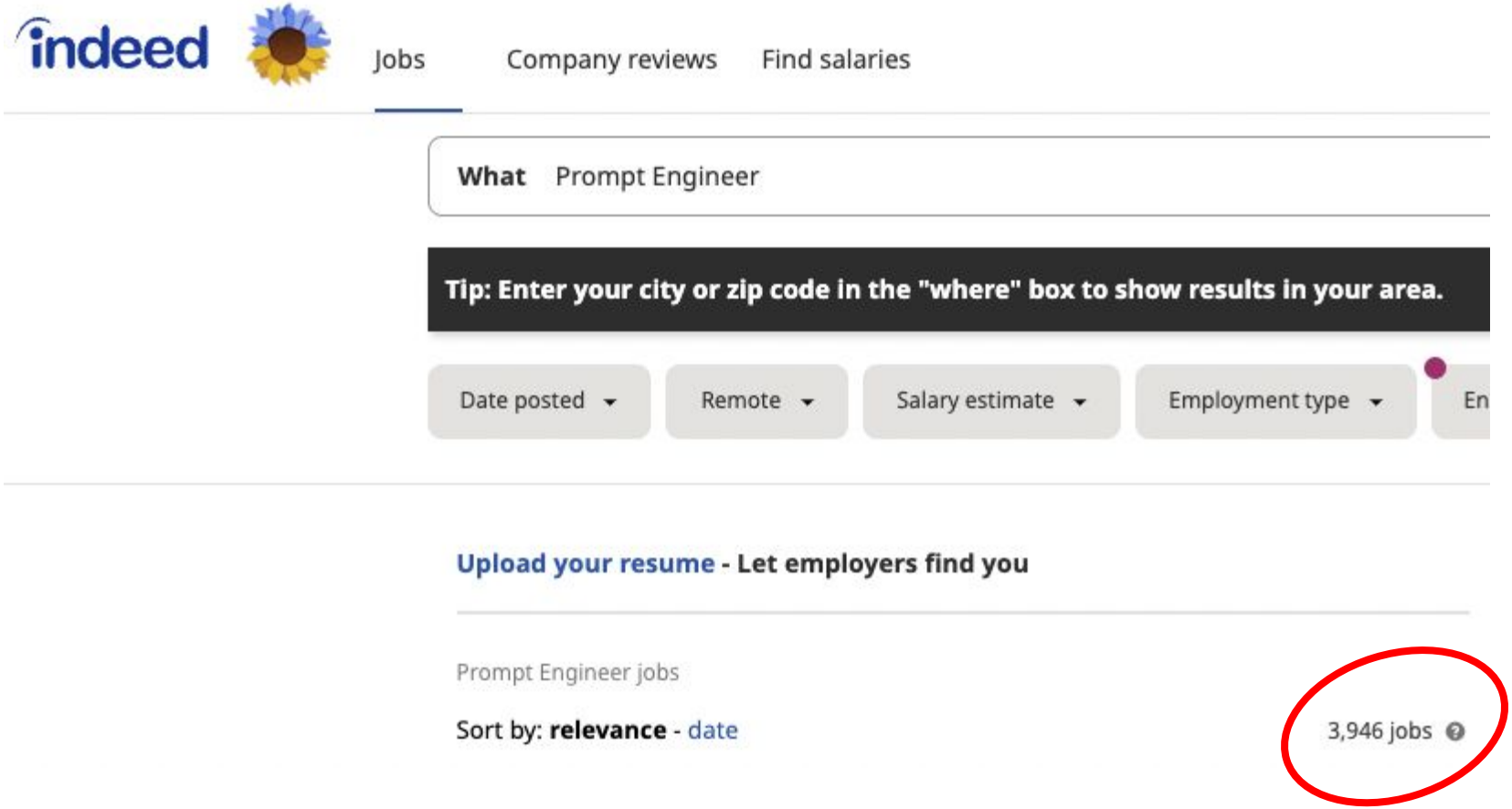
HUMAN-GENERATED CONTENT

Fantastic!

Your text is likely to be written entirely by a human

This is human text

The classifier considers the text to be **unlikely** AI-generated.


indeed
Jobs
Company reviews
Find salaries
What Prompt Engineer
Tip: Enter your city or zip code in the "where" box to show results in your area.
Date posted
Remote
Salary estimate
Employment type
Upload your resume - Let employers find you
Prompt Engineer jobs
Sort by: relevance - date
3,946 jobs

LLMs and the writing world

1. they will be integrated into all word processing tools and in (almost) all professional settings and in all writing processes.

2. they will get better and better—and detecting their use will be inefficient and difficult.

3. they will challenge the integrity of our curriculum *and* our students.

learning outcomes + academic integrity

"Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character."

—*Academic Honesty Policy*

learning outcomes + academic integrity

"Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character."

—*Academic Honesty Policy*

BYU students should seek to be **totally honest** in their dealings with others. They should **complete their own work and be evaluated based upon that work**.

learning outcomes + academic integrity

"Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character."

—*Academic Honesty Policy*

BYU students should seek to be **totally honest** in their dealings with others. They should **complete their own work and be evaluated based upon that work**.

Plagiarism of any kind is completely contrary to the established practices of higher education where **all members of the university are expected to acknowledge the original intellectual work of others** that is included in their own work. In some cases, plagiarism may also involve violations of copyright law.

learning outcomes + academic integrity

"Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character."

—*Academic Honesty Policy*

BYU students should seek to be **totally honest** in their dealings with others. They should **complete their own work and be evaluated based upon that work**.

Plagiarism of any kind is completely contrary to the established practices of higher education where **all members of the university are expected to acknowledge the original intellectual work of others** that is included in their own work. In some cases, plagiarism may also involve violations of copyright law.

Fabrication or falsification is a form of dishonesty where **a student invents or distorts the origin or content of information** used as authority.

learning outcomes + academic integrity

"Students come to the university not only to improve their minds, gain knowledge, and develop skills that will assist them in their life's work, but also to build character."

—*Academic Honesty Policy*

BYU students should seek to be **totally honest** in their dealings with others. They should **complete their own work and be evaluated based upon that work**.

Plagiarism of any kind is completely contrary to the established practices of higher education where **all members of the university are expected to acknowledge the original intellectual work of others** that is included in their own work. In some cases, plagiarism may also involve violations of copyright law.

Fabrication or falsification is a form of dishonesty where **a student invents or distorts the origin or content of information** used as authority.

Cheating is a form of dishonesty where a student **attempts to give the appearance of a level of knowledge or skill that the student has not obtained**.

what should we do?

what should we do?

what should we do?

Houzz

what should we do?

Houzz

what should we do?

homework

(1) Write a policy statement about AI writing for your Fall syllabus

(2) Revise a planned assignment to make it more GPT-resistant