AI or Human? Credibility of Messages Written by ChatGPT

Harshini Karthikeyan, Alisa Krasilnikov, Hannah Pawig, Nidhi Shinde

ABSTRACT. *With the rise of AI platforms like ChatGPT, Azure, and Amazon Go, artificial intelligence (AI) platforms continue to challenge the limitations of human cognition, learning from inputs and responding to prompts with coherence and clarity. This study aims to determine how accurately a person can distinguish text written by a human from text written by an AI bot like ChatGPT.*

We developed prompts for three categories of text - responses to general knowledge questions, social media posts, and haikus - with two different authors, ChatGPT and a Cal Poly student. To keep each treatment consistent, we used the same prompts for each category of text, randomly assigning each piece of text to our participants in a Google Form. The mean percentage of correctly identified authors (CIA) was then calculated across each participant. With a mean CIA of just 49.22%, it appears that people were generally unsuccessful in deciphering either AI or human authorship.

1. INTRODUCTION

Who's the author behind the latest Twitter post in your feed or the advice column you follow online for some guidance? You may immediately assume they are human and not artificial intelligence(AI). It turns out that this discrepancy between our expectations and reality may be greater than we think; our study reveals that people may not be able tell the difference between texts written by AI and humans in real time.

To determine how successful people are at distinguishing texts written by AI and humans, we gather students from Cal Poly and present them with two texts of the same type - one version written by ChatGPT and the other sourced by the researchers. We then record whether they identify the author of the text correctly, updating the overall mean percentage of correctly identified authors (*CIA*).

Similar studies have attempted to assess how effective ChatGPT is at mimicking responses written by actual humans. One study has trained the chat feature with 12 psycholinguistic tasks; in 10 of them, ChatGPT has been found to replicate human patterns in language production and comprehension but had failed to use context to fix syntax errors or shorten words like most humans do (Gao, C. A. et al., 2022). Another study had followed our experiment's approach by presenting participants with original and AI-generated scientific abstracts; these blinded human reviewers correctly identified 68% of abstracts written by ChatGPT (Cai, Z. G. et al., 2023). From these results, it appears that ChatGPT is adept at replicating human patterns of language use but may produce formulaic results that would not typically materialize from a person's own unique, authentic writing style. Our study attempts to find differences in deciphering authorship for various text types to expand upon previous research.

2. MATERIALS & METHODS

The data was collected by having students fill out a Google form of ten questions. These questions displayed a prompt that was either delivered to a human author or ChatGPT and the corresponding written response. The students were then asked to determine whether each response was written by AI or not. Unbeknownst to the students, all ten responses were written by a human or an AI, depending on the assigned treatment.

There were six possible forms that could have been assigned to an individual, each being a combination of a possible author and a type of written text. These forms were either written by a human or ChatGPT. The type of written text exhibited on the form was either a social media post, an explanation (prompts that individuals could reasonably look up in a search engine), or a haiku. These treatments are listed in Table 1.

Table 1. *Treatment*

		text type		
		Explanation (Exp)	Social Media (SM)	Poem
text author	ChatGPT	*AI x Exp*	*AI x SM*	*AI x Poem*
	Human	*Human x Exp*	*Human x SM*	*Human x Poem*

Note. The specific forms used as the treatments for this experiment are listed in the Appendix.

After the students took the quizzes, we logged their final scores of how many questions the students got correct, measured in percentage points. We also obtained their prior knowledge of ChatGPT on a scale of 1 to 10, where 1 indicates no knowledge, and 10 indicates a large amount of knowledge. However, no statistical analysis was done on this variable.

This experiment used 102 students at California Polytechnic State University, specifically those residing in the Poly Canyon Village apartments. Thus, all responses were from individuals in their second or third year. This is a convenient sample, however, as it relied on individuals being willing to come up to our data manager to take the exam. Thus, this study mostly involves people who have some remote interest in AI technology.

For every type of text, the AI and human responses used the exact same prompts, and the order in which the questions were presented was identical, thus eliminating a source of variation. Additionally, we ensured that all of the students knew what ChatGPT was by giving a quick description of it before they began. This was also done for the poems, as we wanted to make sure all of the students were aware of what a haiku was. Furthermore, we utilized a completely randomized design, in which the treatments are assigned entirely at random to each student.

To test the effect of both types of text and author of text on participants' ability to correctly identify a text's author, measured as a percentage of authors correctly identified, a 2x3 two-factor analysis of variance (ANOVA) was conducted. Our analysis was conducted using statistical software: (JMP® Version 17, 2023). No pairwise comparisons were made to further investigate the most optimal combination of text type and author.

3. RESULTS & DISCUSSION

As seen in Table 2, the mean percentage of correctly identified authors for those who received treatment with a human text author was 49.80% was the greater mean CIA of the two author conditions. In contrast, the AI text author mean CIA was 48.63%. The analysis demonstrates no significant difference in average CIA between the two author conditions, $F(1, 96) = 0.3158$, p = 0.5755; thus, no significant main effect of text author in mean CIA was found.

Table 2 also shows that the mean CIA for the three conditions of text types were similar to each other, with mean CIAs of 48.53% for the explanation text type, 50.59% for the poem text type, and 48.53% for the social media text type. The text type condition which resulted in the greatest mean CIA was the explanation text. However, the analysis reveals that no significant difference in mean CIA among the three author conditions was found, $F(2, 96) = 0.4298$, p = 0.6519; there was no significant main effect of text type in mean CIA.

Of the six treatments used in the experiment, the highest mean CIA was 52.35% in the human written poem condition (SD = 9.03). Table 3 illustrates that two treatment groups had the

lowest mean CIA of 48.24% among the treatments: AI-written explanation text (SD = 16.29) and human-written social media text (SD = 10.74). Since no significant main effect of the text author and text type was found, all six treatment means were also not found to be significant from one another; likewise, we did not find evidence of significantly different means among any treatment compared to the overall mean CIA of 49.22% in our sample.

Figure 1 shows some evidence of the text type modifying the effect of text author on mean CIA: the difference in mean CIA for the three text types in AI conditions were closer together than the mean CIAs for the text types in the human conditions. Yet, the analysis indicated no statistically significant interaction between text author and text type, $F(2, 96)$, p=0.7111. We did not find that there was an effect of either text type or text author, or a combination of both, which resulted in a statistically significant mean CIA.

4. CONCLUSIONS

Through the study, the fact that AI's are rapidly evolving is demonstrated through people's inability to accurately distinguish between AI and human authors, even when informed of the possibility of AI involvement. It brings up the consideration that we are not aware of how much content online is AI-generated or altered, especially when we're not actively told AI could be involved. We focused our analysis and data collection on the overall score individuals received. However, there might not be equal variance question-to-question. To be specific, there could have been one or two haikus that

every single person in the study believed were AI-generated, or they believed must have been written by a human author. A future study could look more in-depth into whether sentence structure or specific topics would help people recognize either an AI or a human author.

It is possible students did not believe all ten questions could have the same treatment, and some responses would have been less accurate due to this doubt. Additionally, ChatGPT responds to prompts with pronouns like 'our' and 'we,' which could mislead people, especially those unfamiliar with the AI, and might not expect artificial intelligence to utilize pronouns. We can generalize our results to Cal Poly students living on-campus, specifically in Poly Canyon Village, similar to those in the study, under similar conditions to those in the study.

It is important to be aware of the author of any media we consume, especially in a day and age where artificial intelligence is so easily able to write like a human. Especially when we consider that prejudices and biases inherent in society can then be built into AI (Moss). AIs such as ChatGPT are doing their jobs correctly, as it was designed to respond to requests as though a human wrote it. Being aware of when AI is put into use is now an important digital literacy tool for anyone who spends time on the internet. We should be more cautious when online as it is now clear we truly do not know whether an AI or a human has written something. However, as AI continues to close the gap towards writing as humans do, how can we be expected to tell the difference?

5. REFERENCES

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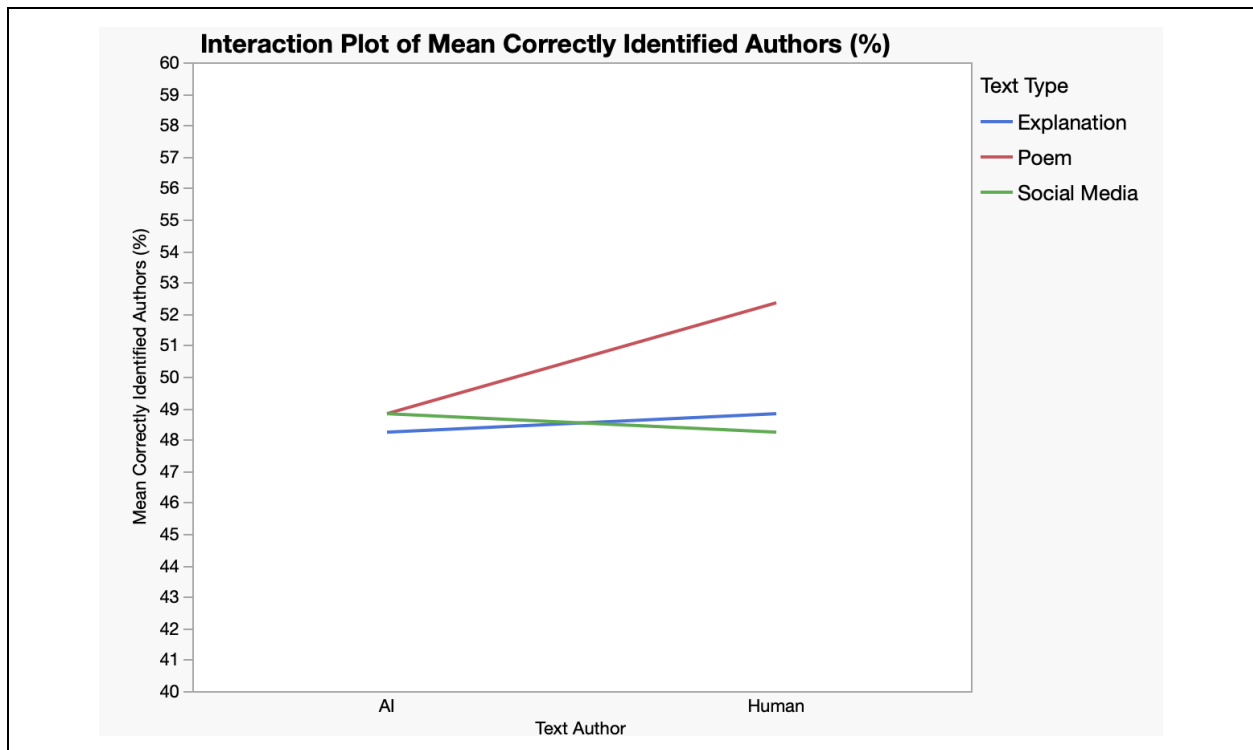
6. APPENDIX

Figure 1. *Interaction Plot*

Table 2. *Mean Correctly Identified Text Authors (%) and Standard Deviations by Text Author and by Text Type*

	M	SD
Text Author		
AI (*n* = 51)	48.63	10.96
Human (*n* = 51)	49.8	9.9
Text Type		
Explanation (*n* = 34)	48.53	13.29
Poem (*n* = 34)	50.59	8.51
Social Media (*n* = 34)	48.53	8.92

Note. M and SD stand for mean and standard deviation, respectively.
Means and standard deviations are measured in percentage points.
Total sample size is 102; overall mean CIA was 49.22%.

Table 3. *Mean Correctly Identified Text Authors (%) and Standard Deviations of Each Treatment*

	text type					
	Explanation		Poem		Social Media	
text author	*M*	*SD*	*M*	*SD*	*M*	*SD*
AI	48.24	16.29	48.82	7.81	48.82	6.97
Human	48.82	9.93	52.35	9.03	48.24	10.74

Note. M and SD stand for mean and standard deviation, respectively.
Means and standard deviations are measured in percentage points.
No treatment means were significantly different from the rest.

Addressing Model Assumptions

It is reasonable to believe that the data comes from a normal distribution. This is supported by both the normal probability plot of residual CIA where the residuals are mostly linear and the symmetric, bell-shaped histogram of residuals in the Normal Quantile Plot (there is one high outlier). Therefore, the analysis assumption that the data comes from a normal distribution is reasonably valid. The residual by predicted plot shows stacks of residuals that have about the same height, aside from the one high outlier. This suggests that it is reasonable to assume constant variability among all treatment groups. Since treatments were given individually, with no repeated individuals, in a randomized order, and under our supervision, it is also valid to assume independence among observations.

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	49.215686	1.046772	47.02	<.0001*
Text Author[AI]	-0.588235	1.046772	-0.56	0.5755
Text Type[Ex]	-0.686275	1.48036	-0.46	0.6440
Text Type[Poem]	1.372549	1.48036	0.93	0.3562
Text Type[Ex]*Text Author[AI]	0.2941176	1.48036	0.20	0.8429
Text Type[Poem]*Text Author[AI]	-1.176471	1.48036	-0.79	0.4287

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	5	207.843	41.569	0.3719
Error	96	10729.412	111.765	Prob > F
C. Total	101	10937.255		0.8668

Effect Tests

Source	Nparm	DF	Sum of Squares	F Ratio	Prob > F
Text Author	1	1	35.294118	0.3158	0.5755
Text Type	2	2	96.078431	0.4298	0.6519
Text Type*Text Author	2	2	76.470588	0.3421	0.7111

Text Author	N Correctly Identified Authors (%)	Mean Correctly Identified Authors (%)	Std Dev Correctly Identified Authors (%)
AI	51	48.62745098	10.958030451
Human	51	49.803921569	9.8975140472

Text Type	N Correctly Identified Authors (%)	Mean Correctly Identified Authors (%)	Std Dev Correctly Identified Authors (%)
Ex	34	48.529411765	13.287577461
Poem	34	50.588235294	8.507100945
SM	34	48.529411765	8.9213237709

	Text Type					
	Ex		Poem		SM	
	Mean	Std Dev	Mean	Std Dev	Mean	Std Dev
Text Author	Correctly Identified Authors (%)	Correctly Identified Authors (%)	Correctly Identified Authors (%)	Correctly Identified Authors (%)	Correctly Identified Authors (%)	Correctly Identified Authors (%)
AI	48.235294118	16.292365589	48.823529412	7.8121323443	48.823529412	6.9663054602
Human	48.823529412	9.9261982533	52.352941176	9.0342485608	48.235294118	10.744355563
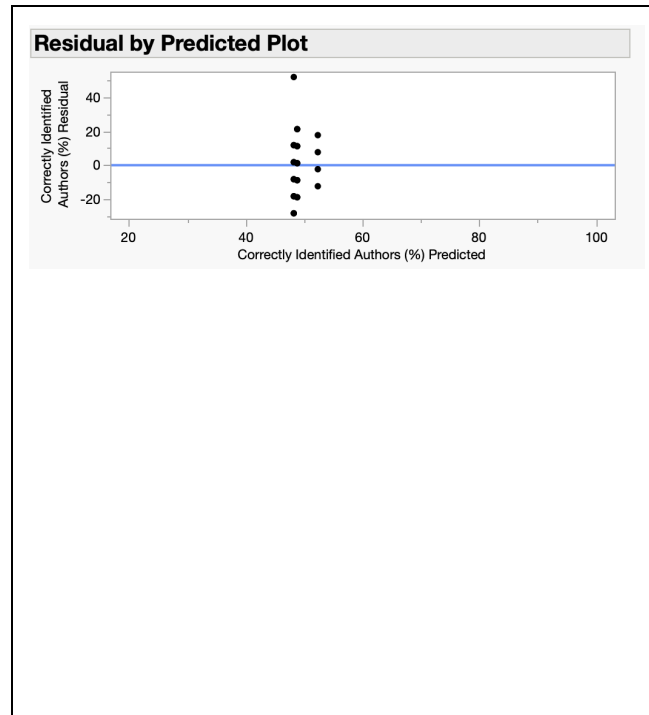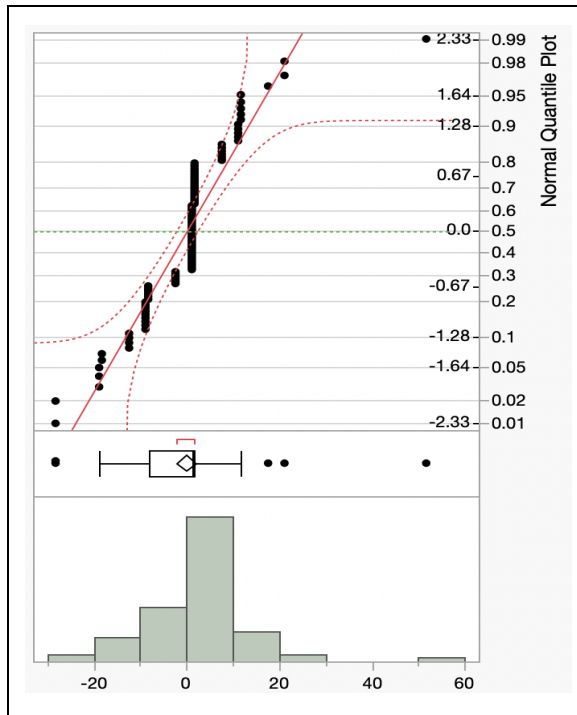
Treatment Forms

In each of the 6 treatment forms, all had an identical first page, pictured below.

AI x Social Media Form This form's second page began as pictured below (top left). The AI x Social Media form second page ended as pictured below (top right). There were only 2 pages for the AI x Social Media form.

Stat 323 Survey

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* Required

There is a total of 10 survey questions. Each question will have a writing prompt answered by either ChatGPT or a fellow Cal Poly student. You will answer if 'Yes' if you believe the responses were written by ChatGPT, or 'No' if you believe the response was written by a fellow Cal Poly student.

"Write a social media post about finals week."   *

It's finals week and the stress is real! Late nights studying, endless cups of coffee, and feeling like there's not enough time in the day. But even though it's tough, we got this! Remember to take breaks, get some fresh air, and don't forget to take care of yourself. Finals week may seem like the end of the world, but in the grand scheme of things, it's just a small hurdle on the road to success. Good luck to everyone out there, let's crush these finals! 📚💪🏽 #finalsweek #studying #staystrong #selfcare #success

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a social media post about fishing over the weekend."   *

Spent the weekend out on the water doing some fishing and it was amazing! Being surrounded by nature and getting away from the hustle and bustle of everyday life was exactly what I needed. Although I didn't catch anything too big, the experience itself was worth it. There's something special about the feeling of reeling in a fish and being reminded of the beauty of the great outdoors. I'm already looking forward to my next fishing trip! 🎣🐟 #fishing #weekend #nature #outdoors #getaway

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a social media post about an 18th birthday."   *

Happy 18th birthday to me! I can't believe I'm officially an adult now. It feels like just yesterday I was blowing out candles on my 16th birthday cake. I'm excited to see what this next chapter of my life holds, but also a little scared. There are so many decisions to make and responsibilities to handle, but I'm ready to take on the challenge. I'm so grateful for my family and friends who have been there for me every step of the way. Let the celebrations begin! 🎉🎂🎈 #18thbirthday #adulting #celebrate #grateful

Do you think this response written by ChatGPT?

◯ Yes

◯ No

"Write a social media post about a girls night out."   *

Had an amazing girls' night out with my besties! We laughed, danced, and had so much fun catching up on life. It's so important to take time out of our busy schedules to connect with friends and let loose. We tried out a new restaurant and the food was delicious. Later on, we hit up a club and danced the night away. It's crazy how much better you feel after a night of good food, good company, and good vibes. Can't wait for our next girls' night out! 💃🙌💅 #girlsnightout #besties #fun #goodvibes #memories

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

Back   Submit   ━━━━━━━━ Page 2 of 2   Clear form

"Write a social media post about visiting San Luis Obispo, California." *

Just got back from an amazing trip to San Luis Obispo, California and I'm already missing it! This charming town has so much to offer - from stunning beaches to beautiful vineyards, there's something for everyone. We hiked the scenic trails in Montana de Oro State Park, visited local wineries, and indulged in some delicious seafood at the waterfront restaurants. But what really made this trip special was the friendly locals who made us feel right at home. Already planning my next visit! 🌴☀️🍷 #SanLuisObispo #California #beaches #wineries #vacation #travelgram

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about traveling Europe." *

Just returned from an incredible trip traveling around Europe! From the stunning architecture in Paris to the picturesque canals in Venice, every city had its own unique charm. We ate our way through Italy, took in the history of Athens, and explored the charming streets of Amsterdam. It was such an eye-opening experience to learn about different cultures and see the world from a new perspective. It's true what they say, travel is the only thing you buy that makes you richer. Can't wait to plan my next adventure! ✈️🌍🚆 #Europe #travel #adventure #culture #explore #wanderlust

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about a girls night out." *

Had an amazing girls' night out with my besties! We laughed, danced, and had so much fun catching up on life. It's so important to take time out of our busy schedules to connect with friends and let loose. We tried out a new restaurant and the food was delicious. Later on, we hit up a club and danced the night away. It's crazy how much better you feel after a night of good food, good company, and good vibes. Can't wait for our next girls' night out! 💃🙌🍸 #girlsnightout #besties #fun #goodvibes #memories

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about having an iPad in college." *

As a college student, having an iPad has been a game-changer! It's so convenient to have all my textbooks, notes, and assignments in one place. Plus, with the Apple Pencil, I can take handwritten notes and draw diagrams directly on my iPad. It's also been a lifesaver for staying organized with my schedule and deadlines. And when I need a break from studying, I can use it to watch movies or play games. Overall, having an iPad has made my college experience so much easier and more enjoyable. #college #ipad #studentlife #organization

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about the struggle of getting Taylor Swift tour tickets * on Ticketmaster."

OMG, the struggle was real trying to get Taylor Swift tickets on Ticketmaster today! I had multiple devices open, constantly refreshing the page, and I still couldn't get the seats I wanted. It's crazy how fast they sell out! I even had some in my cart at one point, but by the time I entered my payment info, they were gone. It's frustrating when bots and scalpers make it difficult for fans to get tickets, but I refuse to give up. I'll keep trying and hopefully, I'll be able to see Taylor in concert soon! #taylorswift #concert #ticketmaster #struggleisreal

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about a wedding anniversary." *

Happy Anniversary to the love of my life! Today marks another year of sharing our lives together, and I couldn't be more grateful to have you by my side. From the moment we said "I do" to this very day, you have been my rock, my partner, and my best friend. I'm so thankful for all the memories we've created and the adventures we've shared. Here's to many more years of love, laughter, and happiness. #anniversary #love #happilyeverafter

Do you think this response was written by ChatGPT?

○ Yes

○ No

Human x Social Media Form Formatted identically to AI x Social Media Form.

Stat 323 Survey

There is total of 10 survey questions. Each question will have a writing prompt answered by either ChatGPT or a fellow Cal Poly student. You will answer if 'Yes' if you believe the responses were written by ChatGPT, or 'No' if you believe the response was written by a fellow Cal Poly student.

"Write a social media post about an 18th birthday." *

Officially legal! This feels like a dream. I used to think turning 18 was so far away but the day has finally come. These last 18 years of my life so far have been amazing. Adulthood is a bit intimidating, but I'm ready to get on with this new chapter of my life and continue to mature more each day. Thank you to my family and friends for supporting and helping me grow into the person I am today, I appreciate you all so much!

Do you think this response written by ChatGPT?

○ Yes

○ No

"Write a social media post about the earthquakes in Turkey and Syria." *
Taking the time to think about those affected by the earthquakes in Turkey and Syria since early February. My heart goes out to the hundreds of thousands of victims from this tragic and frightening emergency. I hope that survivors are getting the resources they need, and that the rescue efforts continue to aid as many people in need. For those rescue workers out there risking their lives everyday during this time, thank you.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about the struggle of getting Taylor Swift tour tickets on Ticketmaster." *

Ticketmaster is the worst. How can I buy tickets to see Taylor Swift on tour when resellers buy them all and Ticketmaster inflates the ticket prices by thousands of dollars, even for nosebleeds? I'm sick of the resellers and bots that get to all of the tickets before it's almost our turn to choose seats. Everytime I thought I was about to secure tickets after entering my payment info, the site would say someone beat us to the seats. I hope I'll be able to find some cheaper tickets somewhere, I'm determined to see Taylor!

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about finals week." *

It's the last week of the quarter, and you know what that means: it's grind time! Please make sure you're getting enough sleep, taking care of your physical and mental health first. Studying this week is crucial, but your health is an even bigger priority. Good luck to everyone on all their finals, we all have got this. Try not to stress yourself out too much or be too hard on yourself, it'll all turn out just fine. Happy Finals Week!

Do you think this response was written by ChatGPT?

○ Yes

○ No

Back   Submit   ████████████ Page 2 of 2   Clear form

Human x Social Media Form (continued)

"Write a social media post about a girls night out."   *

It was just me and the girls last night; we had a blast at the concert we went to. So grateful that we get to get together like this, make a trip, have some good food, and vibe at the amazing concert. Wouldn't trade anything for my besties and I'm glad we had such an awesome night. I'll never forget this one. Already hoping we get to do another girls night out very soon! #thegirls

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about visiting San Luis Obispo, California."   *

Visited San Luis Obispo this last weekend with my family and we had tons of fun! There is so much to explore around this coastal town, including a variety of surrounding beaches and an amazing downtown area. The weather is perfect here year round too! Would love to be back sometime soon. Highly recommend making a trip out to California's Central coast, you won't regret it.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about a wedding anniversary."   *

Happy wedding anniversary to us! Cheers to many more years of our wonderful marriage, and thank you for being my rock all these years. It has been quite a wild ride, and I couldn't have asked for a better partner by my side. I love you, forever and always.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about having an iPad in college."   *

Just got an iPad for college and it has improved my student life. I am so glad I never have to buy notebooks, pens or pencils, and other school supplies at the start of every quarter. It also makes my backpack so much lighter and I don't have to use up tons of paper for notes or as scratch paper. It is a great investment because even though it's a large price to pay up front, you won't need to spend much else on school supplies as long as you have your iPad to work and store everything on. It is also more portable than laptops, which can be heavy and unnecessary in some contexts. Honestly I don't know how I lived without it before!

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about fishing over the weekend."   *

Last weekend I got some amazing catches out at the lake! The weather was just right with the amount of sun there was. Was out there for quite a while under the nice blue sky to catch as many fish as possible. Definitely glad I got to get away from everything for a bit to relax and fish. Hoping to get some bigger fish next time!

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a social media post about traveling Europe."   *

Just landed last night after a 2 week trip exploring Europe! Going on this trip has always been a dream of mine since I was little, and I'm so blessed to have been able to experience traveling outside of America. We went to England, France, Italy, Spain, Amsterdam, Austria, Germany, and Switzerland. The views were stunning and there was so much to see, I wish I could have stayed in each place a bit longer. I would do anything to go on another vacation in Europe. Seeing and interacting with other cultures is something we should all get to experience for ourselves.

Do you think this response was written by ChatGPT?

○ Yes

○ No

AI x Poem Form This form's second page began as pictured below (top left). The AI x Poem form second page ended as pictured below (top right). There were only 2 pages for the AI x Poem form.

Stat 323 Survey

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* Required

There is total of 10 survey questions. Each question will have a writing prompt answered by either ChatGPT or a fellow Cal Poly student. You will answer if 'Yes' if you believe the responses were written by ChatGPT, or 'No' if you believe the response was written by a fellow Cal Poly student.

Note: A haiku is a certain poem structure consisting of 3 lines with 5 syllables in the first and last lines, and 7 syllables in the second line. This type of poem originates from Japan.

"Write a haiku about a stormy sea."   *

Wild waves crash and roar,

Thunderous stormy sea churns,

Nature's power shown.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about activism, specifically fighting for women's rights." *

Courageous voices rise,

Women's rights are human rights,

Activism thrives.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about the season of spring."   *

Cherry blossoms bloom.

Birds singing their sweetest tunes,

Spring brings new life soon.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about a sunset."   *

Sun dips below the sea,

Colors of the sky ablaze,

Peaceful end to day.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

Back   Submit   Page 2 of 2   Clear form

"Write a haiku about a forest."   *

Tall trees stand so proud,

Leaves rustle in the gentle breeze,

Peaceful forest sounds.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about friendship."   *

Two hearts intertwined,

Together through thick and thin,

Friendship forever.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about a war."   *

Thundering cannons,
Soldiers march with heavy hearts,

War brings only death.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about today's busy culture."   *

Busy bees buzzing,

Rushing, hustling, never rest,

Modern life's unrest.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about the changing of seasons."   *

Leaves fall to the ground,

Nature's cycle never stops,

Seasons come and go.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about technological advancement." *

Machines once mere dreams,

Now in our hands, at our feet,

Tech propels us forth.

Do you think this response written by ChatGPT?

◯ Yes

◯ No

Human x Poem Form Formatted identically to the AI x Poem Form.

Stat 323 Survey

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* Required

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Note: A haiku is a certain poem structure consisting of 3 lines with 5 syllables in the first and last lines, and 7 syllables in the second line. This type of poem originates from Japan.

"Write a haiku about friendship." *

Trust and compassion.

Strong bonds and companionship.

We find those in friends.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a haiku about a stormy sea." *

Growing thunderclouds.

Waves crash against each other.

Will we make it through?

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a haiku about a forest." *

Enormous green trees.

Arching over and across.

A whole world concealed.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Write a haiku about today's busy culture." *

Deep breaths of fresh air

Working isn't everything

Make time for yourself.

Do you think this response was written by ChatGPT?

○ Yes

○ No

Back   Submit   ▬▬▬▬▬▬▬ Page 2 of 2   Clear form

Human x Poem Form (continued)

"Write a haiku about a war."   *

Wounded, dead, destroyed.

For a war launched by proud men.

Leaving us in ruin.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about the changing of seasons."   *

The seasons twist by,

A spinning wheel caught in wind.

Stealing time from me

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about the season of spring."   *

I love the springtime.

Flowers blooming, nature's vibrant.

'Tis the best season.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about a sunset."   *

The best part of day

Is when the sun starts to hide

Pretty colored sky

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about technological advancement." *

Our technology

Internet, cell phones, smart cars.

Oh how we've advanced.

Do you think this response written by ChatGPT?

◯ Yes

◯ No

"Write a haiku about activism, specifically fighting for women's rights." *

They ask why we fight.

Do they not see us drowning

A world unequal.

Do you think this response was written by ChatGPT?

◯ Yes

◯ No

AI x Explanation Form This form's second page began as pictured below (top left). The AI x Explanation form second page ended as pictured below (top right). There were only 2 pages for the AI x Explanation form.

Stat 323 Survey

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* Required

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"Should I go to college?" *

Deciding whether or not to attend college is a personal decision that depends on a variety of factors. It's important to consider your career goals and whether a college degree is necessary to achieve them. Additionally, researching the job market in your field of interest can help you determine if a college degree is necessary to compete for jobs. College can also be a great opportunity to explore your personal interests and discover new passions. However, college can be expensive, so it's important to consider your financial situation and whether you can afford to pay for tuition and other expenses. It's also worth noting that there are alternative paths to traditional college, such as vocational schools, apprenticeships, or online learning programs. Ultimately, the decision to attend college should be based on your individual circumstances and goals, and it's important to do your research and make an informed decision that is right for you.

Do you think this response was written by ChatGPT?

○ Yes
○ No

"What were the stonewall riots?" *

The Stonewall riots were a series of violent protests by members of the LGBTQ+ community in June 1969 in response to a police raid on the Stonewall Inn, a gay bar in New York City. The riots lasted for several nights and are considered a pivotal moment in the LGBTQ+ rights movement, sparking a wave of activism and organizing. The riots led to the first Gay Pride marches and increased visibility and acceptance of the LGBTQ+ community. The Stonewall Inn is now a National Historic Landmark.

Do you think this response written by ChatGPT?

○ Yes
○ No

Back   Submit   Page 2 of 2   Clear form

AI x Explanation Form (continued)

"What are some painting tips for beginners?" *

Here are some painting tips for beginners:

Start with the basics: Begin with simple paintings and focus on basic techniques such as color mixing, brush strokes, and shading.

Use quality materials: Invest in good quality paints, brushes, and canvases to ensure the best results.

Practice, practice, practice: The more you practice, the better you will become. Don't be discouraged by mistakes, as they are a natural part of the learning process.

Experiment with different techniques: Try different painting techniques, such as glazing or impasto, to create different effects and textures.

Work from reference: Start by painting from a reference image or still life to help you understand how light and color work in a painting.

Don't be afraid to make mistakes: Painting is about experimenting and trying new things. Don't be afraid to make mistakes, as they can often lead to new and unexpected discoveries.

Take breaks: Take breaks to rest your eyes and prevent fatigue. This can also help you gain a fresh perspective on your painting.

Remember, painting is a journey and it takes time and practice to develop your skills. Enjoy the process and have fun!

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Who was Isaac Newton?" *

Isaac Newton (1642-1727) was an English physicist, mathematician, and natural philosopher who is widely considered to be one of the most influential scientists in history. Newton is best known for his three laws of motion and his law of universal gravitation, which explain the behavior of objects in motion and the forces that act upon them. He also made important contributions to the field of optics, including the discovery that white light is made up of a spectrum of colors, and the development of the reflecting telescope. Newton's work laid the foundation for modern physics and his laws of motion and gravitation remain fundamental concepts in the study of mechanics and astronomy today.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"How do you make a peanut butter and jelly sandwich?" *

To make a peanut butter and jelly sandwich, you will need:

Two slices of bread

Peanut butter

Jelly or jam

Here are the steps to follow:

Take the two slices of bread and lay them flat on a clean surface.

Using a knife or spoon, spread peanut butter on one slice of the bread. You can spread it as thick or as thin as you like.

On the other slice of bread, spread jelly or jam. Again, you can use as much or as little as you like.

Place the two slices of bread together, with the peanut butter and jelly sides facing each other.

Gently press down on the sandwich to ensure that the peanut butter and jelly are evenly distributed.

If desired, you can cut the sandwich in half or into smaller pieces for easier handling.

And that's it! Your peanut butter and jelly sandwich is now ready to eat. Enjoy!

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is a confidence interval?" *

A confidence interval is a range of values that is likely to contain the true value of a population parameter with a certain level of confidence, based on a sample of data. In other words, a confidence interval is an estimate of the range within which the true population parameter is likely to fall.

For example, if a survey finds that 55% of people prefer chocolate ice cream, with a 95% confidence interval of 50% to 60%, this means that there is a 95% chance that the true proportion of people who prefer chocolate ice cream falls between 50% and 60%.

The level of confidence associated with a confidence interval is typically expressed as a percentage, such as 90%, 95%, or 99%. The width of the interval depends on the sample size, the variability of the data, and the desired level of confidence.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is photosynthesis?" *

Photosynthesis is the process by which green plants, algae, and some bacteria convert light energy from the sun into chemical energy in the form of organic compounds, such as sugars. During photosynthesis, carbon dioxide from the air and water from the soil are combined in the presence of sunlight to produce glucose (a simple sugar) and oxygen gas. This process is essential for the survival of most living organisms on Earth, as it produces the oxygen necessary for respiration and provides the energy needed for growth and reproduction.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is a good and cheap date idea?" *

Here are some great and affordable date ideas that you and your partner can enjoy together:

One option is to have a picnic in the park. This is a classic romantic date idea that can be inexpensive but still memorable. Pack a blanket, some simple snacks, and drinks and find a scenic spot to enjoy the outdoors. You can even bring a frisbee or other games to play.

Another idea is to cook a meal together at home. Choose a recipe that you both enjoy and work together to prepare it. You can make it more special by setting the mood with some candles and romantic music. This can be a fun and intimate way to bond with your partner.

If you prefer to stay in, you can have a cozy movie night at home. Choose a movie or TV show that you both enjoy and make some popcorn or other snacks. You can snuggle up on the couch and enjoy each other's company while you watch.

For a cultural experience, you can visit a free museum or art gallery. Many museums offer free admission or have free days, so you can enjoy some art and history without spending any money. This can be a great way to learn something new together and have a stimulating conversation.

Finally, taking a walk or hike together can be a great way to enjoy each other's company and get some exercise. Find a nearby nature trail or park and spend some time in nature. This can be a great opportunity to explore your local area and discover new things together.

Remember, it's not about how much money you spend, but the quality of time you spend together. By trying out one of these affordable date ideas, you can have a fun and memorable time with your partner without breaking the bank.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"How do you treat a sprained ankle?" *

The following are some general steps for treating a sprained ankle:

Rest: It is important to rest the injured ankle and avoid putting weight on it to prevent further damage.

Ice: Apply ice to the affected area for 20-30 minutes every few hours to reduce pain and swelling.

Compression: Wrap the ankle with an elastic bandage or compression wrap to help reduce swelling.

Elevation: Elevate the affected ankle above the level of the heart to help reduce swelling.

Pain relief: Over-the-counter pain medications such as ibuprofen or acetaminophen can help relieve pain and reduce inflammation.

Rehabilitation: Once the swelling has subsided, begin to do range-of-motion exercises to improve mobility and strengthen the ankle.

Medical evaluation: If the sprain is severe, or if there is a possibility of a fracture, it is important to seek medical attention.

It is important to note that these steps are general guidelines and may not apply to every situation. Always follow the advice of a healthcare professional if you are unsure about how to treat a sprained ankle.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is the difference between a western and an english saddle?" *

The main differences between a Western saddle and an English saddle are their design and intended use. Western saddles are typically larger and heavier than English saddles, with a deep seat, high pommel, and wide stirrups. They are designed for use in activities such as trail riding, ranch work, and rodeo events such as barrel racing and roping.

English saddles are lighter and more streamlined than Western saddles, with a flatter seat, lower pommel, and narrower stirrups. They are designed for use in disciplines such as dressage, show jumping, and eventing, which require greater flexibility and mobility from the rider.

Overall, Western saddles are designed for comfort and durability over long periods of use, while English saddles are designed for performance and precision in more specialized riding disciplines.

Do you think this response was written by ChatGPT?

○ Yes

○ No

Human x Explanation Form This form is formatted identically to the AI x Explanation form.

Stat 323 Survey

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* Required

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"How do you make a peanut butter and jelly sandwich?" *

To make a peanut butter and jelly sandwich, you first have to get two slices of bread, some peanut butter, and some jelly or jam of your choice. Put peanut butter on one slice of bread, and jelly on the other. Then stick the pieces of bread together so that the peanut butter and the jelly sides are touching. Then, your sandwich is complete.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"Who was Isaac Newton?" *

Isaac Newton was an important figure who was alive in the late 1600s and early 1700. He made many incredible contributions to various scientific and mathematical fields, and is thus known as one of the most momentous individuals in the scientific world. He was mostly known for his theories on gravity, laws of motion, the visible spectrum, and for inventing calculus. However, those were not his only achievements. In life, he was known for being antisocial and reserved, with many enemies.

Do you think this response was written by ChatGPT?

○ Yes

○ No

Back   Submit   ████████████ Page 2 of 2   Clear form

"Should I go to college?" *

In this day and age, a college-level degree is expected for most jobs that pay a living wage. That doesn't mean that higher-paying jobs without a degree requirement don't exist, but make sure you understand that finding a job you can survive on will be much harder for you. However, if a degree is something that is unattainable for you, then know that there are other options available for you. A degree is a privilege, and you should not be ashamed if you have not been handed this opportunity.

College is an opportunity to see what you are passionate about, and to build up skills that are important for many fields. But, there are alternative options to a college education. Vocational schools and apprenticeships are readily available. They tend to be cheaper, and don't follow the traditional schooling system, which is more accessible for most people, especially those with learning disabilities.

Overall, the only person who can make this decision is you. You have to assess what is important to you, and what you can reasonably attain.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What were the stonewall riots?" *

The Stonewall riots were a pertinent part to LGBTQ+ history, which are remembered today with pride parades. At the time, one of the places where queer individuals found some safety in their identity were at gay bars, which were usually protected by the mafia or other crime families. The Stonewall Inn, a gay bar in New York, was illegally raided one day, which tended to be routine for these spaces. However, this time, the inhabitants of the bar fought back, and the police quickly lost control of the crowd. This riot inspired the residents of Greenwich village, where the inn was located, to spring into activism and to form groups where they demanded the right to live freely, without fear of police.

Do you think this response written by ChatGPT?

○ Yes

○ No

"What is a confidence interval?" *

When we pull a statistic from a sample, such as the mean, we never expect it to fully represent what the true population is. This means that unless we are sampling the entire population, which is usually impossible, we have no idea what the true mean or proportion of the population is. But, we can gauge a general idea with the confidence interval. This range between two numbers tells us what the population mean could reasonably be, with some level of confidence. As we increase in confidence we become more certain of where the true population statistic lies. But, as we increase in confidence, our interval gets wider, so we are less precise.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What are some painting tips for beginners?" *

Here are some tips:

Painting is hard and requires a lot of practice. Don't be disappointed when your first pieces don't look like what you had in mind.

Don't invest in expensive materials right as you start. Try out some cheaper items, and then upgrade if you feel that you need to.

Start with the basics. Learn about lighting, shapes, and textures. Once you learn how to break things down, it makes it easier to build up and paint complex images.

Learn how to mix colors. Many artists get caught up on trying to find the perfect pre-made color instead of trying to mix it themselves.

Always finish your paintings, even if you don't think it's going the way you want it to. You'll feel better having accomplished something, and you'll learn along the way.

Have fun with your painting endeavors!

Do you think this response was written by ChatGPT?

○ Yes

○ No

Human x Explanation Form (continued)

"What is photosynthesis? " *

Photosynthesis is the process that allows plants to convert sunlight, water, and carbon dioxide into Adenosine Triphosphate, also known as ATP. There are some crucial steps to this process, such as the light-dependent reaction stage, and the Calvin cycle. Sunlight is a crucial component of the initial process, as the photons are required to energize the chlorophyll, and water is an additionally important component of the Calvin cycle, as it provides the electrons used for the electron transport chain.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"How do you treat a sprained ankle? " *

It is recommended to elevate the injury above the level of the heart, and put ice and a compression bandage on it. However, the best medicine for an injury of this type is time to rest. A sprained ankle will not heal faster than the body will allow, but continued use will slow down progress, as it causes strain on the ligaments and tendons which have already been hurt by the initial sprain.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is a good and cheap date idea?" *

You have to consider what your partner is interested in when planning a date. Dates do not necessarily have to be elaborate, but they should be an occasion where both parties have fun and spend quality time with each other. Some cheap date ideas could be taking a walk, going to a new location together, completing a puzzle or an art project, or watching a movie. Make sure that you choose an appropriate date for the occasion! Someone who is going on a first date with you would most likely prefer meeting in a public location for safety. In this case, survey the area around you. What areas are free or cheap to access, and allow you to have a conversation with this individual.

Do you think this response was written by ChatGPT?

○ Yes

○ No

"What is the difference between a western and an english saddle?" *

Western and English riding are different disciplines, and so their saddles are used for different purposes.

Most of western riding styles involve sharp turns and agility, and thus a western saddle is designed to hold the individual in place. As such, it is larger and deeper, with supports on the front and back. It was originally designed for longevity, as people would use them for work, and so they provide comfort and stability.

English saddles, on the other hand, were designed for close contact with the horse. It is lighter and flatter, and allows the horse more mobility. Since most of English riding styles involve freeform movement of the horse, a smaller saddle is beneficial.

Do you think this response was written by ChatGPT?

○ Yes

○ No