



Have I Seen You Before? AI Meets AI

Zahra Osman



My name is Zahra Osman and I am a grade ten student at Lester B. Pearson High School. This is my sixth year participating in the science fair. I asked my homeroom teacher about the fair at the beginning of the year. He researched the entry guidelines and he helped me enter. I am the only student from Lester B. Pearson participating this year.

My first year I won a gold medal and the Terry and Sharon Allen Special Merit Award for Elementary. In my second year of participating, I was chosen to go to the CYSF. Sadly, Covid-19 occurred and the fair was cancelled. Thankfully, I was chosen and able to participate for the past three years. I had won a silver medal and two gold medals as well as the CYSF Director's Award. I enjoy researching new topics. I find the fair very interesting and it is a great way to display different ideas and projects.

I really enjoy playing basketball. I was fortunate enough to be chosen to play on two separate teams. My teams are like my second family. I am so grateful to have the opportunity to play and create wonderful memories with my new friends. Basketball is a beautiful sport that teaches cooperation and stability. It is an efficient way of keeping healthy and fit. I love participating in basketball games against other teams. Alongside playing basketball, I enjoy reading and writing poetry very much.

For this year's science project, I chose to focus on Artificial Intelligence. My project focuses mainly on the accuracy of AI detectors and the effect of AI on academic integrity. As AI continues to advance and improve, this topic has become very common in most conversations especially in a classroom setting. Witnessing my peers use AI daily for assignments and teachers giving lectures on the risks of plagiarism in every subject, inspired me to research the effect it has on academic integrity regarding the education system. Also, it made me question how teachers identify AI content in student work with and without the use of online detectors, and if they are effective and accurate. Overall, my research and results highlighted the need for more learning tools and strategies that teachers can use when detecting AI in student work.

- Question

- Will teachers at Lester B. Pearson High School successfully detect AI or human content in human-generated text, AI-generated text, and text both AI and human-generated?

- Purpose

- Evaluating accuracy of artificial intelligence detectors and assessing the impact of AI on academic integrity.

- Background Research

What is it?

- Programs and computers created from a branch of computer science to replicate human thinking
- Integrated technology
- Replication by machines of human intelligence processes
- Individuals = are able to develop, test, refresh machine learning and in depth learning models
- Machines = analyze data and perform faster/more accurate

How does it work?

- Detects patterns and similarities in data through analyzing
- Consumes great amounts of data
- "Chatbot" (or student itself) learns from examples of human generated texts to understand human performance

AI is an "intern"

- Give it instructions asking it to complete tasks and produce a product
- More detailed/detailed instructions = quality and quantity of product
- No information created - AI researches for you
- You can tell it what type of person you want it (teacher/hero)

- Google CEO (Sunder Pichai)

- Compares AI's impact to that of necessities (Electricity/Water)

Deep Learning

- Form of machine learning
- An old concept: neural networks (math operations completed on an array of numbers)
- AI learned from a large amount of info regarding human speech
- Includes greater amount of data
- Complex = "deep"
- Automation of predictive analytics

Machine Learning

- Computer performs on its own - no programming required
- Supervised Learning: Labeled data series to allow easy pattern recognition and labeling new series
- Unsupervised Learning: Unlabeled data series organized by similarities and differences
- Reinforcement Learning: Unlabeled data series that provides feedback of performance

Strong vs. Weak

- Weak (narrow): Perform specific task - Siri
- Strong (Artificial general intelligence): Mimics cognitive abilities of human brain - unsure, uses understanding from one area for another (fuzzy logic)

Types

- Stable Diffusion
- Chat GPT

Cognitive Skills

- Learning - Algorithms guide AI on how to complete what they asked
- Self-Correction - Refine algorithms for high accuracy
- Reasoning - Which algorithm is best for specific task
- Creativity - AI techniques such as statistical methods and neural networks to produce original/new ideas

Four types

- Systems that are task specific intelligent (commonly used today) and sentient systems (yet to exist)
- Reactive machines: Task specific, lack memory (Deep blue chess program - analyze pieces but not predict future ones)
- Theory of mind: AI would be able to comprehend emotions with its social intelligence - understand human intentions, anticipate behavior
- Limited memory: Contains memory
- Self-awareness: Obtain a consciousness and aware of their current state (doesn't exist)

Psychology
term for
AI

Examples

- Machine vision (uses camera to view physical info) ^{analysis}
- Natural language processing (text translation, speech recognition, sentiment)
- Audio, text, image generation

Applications

- Healthcare
- Finance
- Education
- Law
- Business

Education

- Computerized grading - allows teachers to focus on responsibilities
- Replace teachers, alternating how/where students learn (online or in person)
- Plagiarism rules must be enforced and observed with how and test taking
- Tutoring students who need extra support
- Assist with forming lesson plans and discovering new ways to have students more enthusiastic

Teaching/Learning Roles

- Teaching Assistant: Organizes / more time for students
- Administrator Assistant: Class, bus schedules, newsletters
- Instructional Assistant: Tutoring / student feedback
- Parent Assistant: Bedtime stories, individualized education plans

Monitoring (crucial)

- Allows system to detect / lessen errors
- Checkpoint for accuracy / feedback

Improvement

- Powerful hardware
- Processing speeds
- Greater amounts of data
- Open-source improvements in networks

Why is it important?

- Effective in various fields - can perform quicker / more efficient than humans (certain situations)
- Plays a role in evolving our ideas / expanding knowledge

- Hypotheses

- I predict that the teachers at Lester B. Pearson will struggle when evaluating 3 pieces of text that is AI-generated, human-generated, and both.
- Their responses to the questions asked after each paragraph and survey will be an indicator of this.

- Experiment

I would like to determine....

- Types of detectors used by teachers (classrooms)
- Methods employed to ensure academic integrity is maintained

What will I do.....

- Use this knowledge to assess the ability of teachers to detect AI content
- This will be in the form of short paragraphs (one I write and one by AI)

- Variables

Controlled

- Tasks the teachers were given to complete
- Questions the teachers were asked to answer
- Environment the experiment took place in
- Materials the teachers were asked to use

Manipulated

- The amount of reads the teachers were allowed for each paragraph
- The time the experiment started

Responding

- The teachers' answers to the questions after each paragraph
- The teachers' ability to identify which sentences contained AI content
- The teachers' response to the survey questions

- Materials

- Three paragraphs
- Survey

- Sources of error

- The environment the experiment took place in
- The teachers were supposed to work independently
- My science coordinator and I reminded them to work alone
- The environment was the same (classrooms/invigilators) - logistical reasons = teachers were not able to complete the experiment at the same time

- Conclusion

- Hypothesis was correct
- First paragraph - teachers were unable to identify human content and labeled it fully AI
- Second paragraph - teachers found it difficult to detect human content = usually accusations of plagiarism leads to ethical issues (more learning tools)
- Third paragraph - Majority could not detect AI content = increased chance it could go undetected in student work
- Is there anything known as an "original" thought?

- Applications

- Interview with CBE Director week of March 18th
- CBE providing coverage for teacher resources?
- Oral components
- Tool for spreading awareness - students and teachers
- Used in guidelines for school grading system
- Framework for future projects in CYSF

Paragraph 1

(Both)

2 a) Human II
19 b) AI III III III
5 c) Both III

Sentences -

How many guessed correctly?

18 0/4 III III III III
3 1/4 III
1 2/4 I
3/4
4/4

Which sentences?

4 1 IIII
7 2 IIII II
6 3 IIII I
3 4 III

15 5 III III III
15 6 III III III
16 7 III III III I
19 8 III III III

AI
Detect
(Human)

Paraphrased
Detect
(AI)

Paragraph 2

(Human)

- 3 a) Human III
- 2 b) AI II
- 17 c) Both IIII IIII IIII II

Sentences-

How many guessed correctly?

- 2 0/8 II
- 2 1/8 II
- 4 2/8
- 4 3/8 IIII
- 7 4/8 IIII II
- 3 5/8 III
- 6/8
- 1 7/8 I
- 3 8/8 III

Which sentences?

- 2 1 II
- 13 2 IIII IIII III
- 12 3 IIII IIII II
- 9 4 IIII IIII
- 7 5 IIII II
- 5 6 IIII
- 13 7 IIII IIII III
- 10 8 IIII IIII

How many detected

AI

21 instead of 20
 "one teacher didn't answer question"

Paragraph 3 (AI)

- 10 a) Human IIII IIII
- 2 b) AI II
- 9 c) Both III IIII

Sentences -

How many guessed correctly?

- 11 0/8 IIII IIII I
- 1 1/8 I
- 2 2/8 II
- 2 3/8 II
- 3 4/8 III
- 1 5/8 I
- 6/8
- 7/8
- 2 ~~10~~ 8/8 II

Which Sentences?

- 19 1 IIII IIII IIII
- 19 2 IIII IIII IIII
- 16 3 IIII IIII IIII I
- 16 4 IIII IIII IIII I
- 17 5 IIII IIII IIII II
- 12 6 IIII IIII II
- 15 7 IIII IIII IIII
- 14 8 IIII IIII IIII

How many thought were human

Survey

14 1. a) Human IIII IIII IIII
8 b) AI IIII III

3 2. a) Very easy
5 b) Easy III
13 c) Neutral IIII
1 d) Difficult IIII IIII III
1 e) Very Difficult I

7 3. a) Very easy
7 b) Easy IIII II
8 c) Neutral IIII II
8 d) Difficult IIII IIII
e) Very difficult

1 4. a) Once I
21 b) Twice IIII IIII IIII IIII I

9 5. a) Once IIII
17 b) Twice IIII IIII IIII II

11 6. a) Once IIII IIII I
11 b) Twice IIII IIII I

Shaw Webmail**zosman2@shaw.ca**

Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca>
Subject : Science Fair Project - Artificial Intelligence
To : cbecommunications@cbe.ab.ca

Fri, Mar 01, 2024 09:56 AM

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I would appreciate if I could interview someone from the CBE who is knowledgeable of the current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail**zosman2@shaw.ca**

Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Fri, Mar 01, 2024 10:00 AM
Subject : Calgary Science Fair Project - Artificial Intelligence
To : seaton@ucalgary.ca

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I read your article in the Calgary Herald and I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail**zosman2@shaw.ca**

Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca>

Fri, Mar 01, 2024 10:46 AM

Subject : Calgary Science Fair Project - Artificial Intelligence**To :** madennis@cbe.ab.ca

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

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587-966-6207

Shaw Webmail**zosman2@shaw.ca**

Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca>

Fri, Mar 01, 2024 10:58 AM

Subject : Science Fair Project - Artificial Intelligence**To :** corpsec@cbe.ab.ca

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I would appreciate if I could interview someone from the CBE who is knowledgeable of the current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail

zosman2@shaw.ca

Re: [EXTERNAL] Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Fri, Mar 01, 2024 03:33 PM
Subject : Re: [EXTERNAL] Science Fair Project - Artificial Intelligence
To : Graham, Melaina <MeGraham@cbe.ab.ca>

Thank you so much for your help!

Have a great weekend,

Zahra Osman

From: "Graham, Melaina" <MeGraham@cbe.ab.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 11:13:26 AM
Subject: RE: [EXTERNAL] Science Fair Project - Artificial Intelligence

Hello Zahra,

What an interesting project! I recommend that you reach out directly to the Office of the Chief Superintendent (chiefsuperintendent@cbe.ab.ca) or the office of School Improvement (SchoolImprovement@cbe.ab.ca) for details regarding AI use policy as they have more information regarding operational matters.

Thanks,

Melaina Graham (*she/her*)
Board Administrator
Calgary Board of Education | www.cbe.ab.ca
t| (403) 817-7916

I acknowledge the traditional territories and oral practices of the Blackfoot Nations, which includes the Siksika, the Piikani and the Kainai. I also acknowledge the Tsuut'ina and Stoney Nakoda First Nations, the Métis Nation (Region 3), and all people who make their homes in the Treaty 7 region of Southern Alberta.

The contents of this email and any attachment(s) are confidential and intended for the named recipient only. If you have received this email in error, please notify the sender immediately, delete this email and do not copy, use or disclose it.

From: ZAHRA OSMAN <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 10:58 AM
To: Inbox - Corporate Secretary <corpsec@cbe.ab.ca>
Subject: [EXTERNAL] Science Fair Project - Artificial Intelligence

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Subject : Fwd: [EXTERNAL] Science Fair Project - Artificial Intelligence
To : chiefsuperintendent@cbe.ab.ca,
SchoolImprovement@cbe.ab.ca

Fri, Mar 01, 2024 03:35 PM

Good afternoon,

I hope you are doing well! Melaina Graham passed on your information to me.

My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I would appreciate if I could interview someone from the CBE who is knowledgeable of the current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman

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Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail**zosman2@shaw.ca****Re: Calgary Science Fair Project - Artificial Intelligence**

From : ZAHRA OSMAN <zosman2@shaw.ca> Fri, Mar 01, 2024 03:38 PM
Subject : Re: Calgary Science Fair Project - Artificial Intelligence 📎 1 attachment
To : Sarah Eaton <seaton@ucalgary.ca>

Thank you so much for getting back to me. Monday or Tuesday works for me. What time would you prefer to meet?

Kind regards,

Zahra Osman

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 2:17:41 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Dear Zahra,

How exciting! Yes, I would be happy to talk to you. Could we chat on Monday or Tuesday next week?

Sincerely,
Sarah Elaine Eaton

Sarah Elaine Eaton (*she/her*)
Associate Professor
Leadership, Policy, and Governance | Werklund School of Education

Academic Director
Equity, Diversity, and Inclusion Education and Academic Integrity | Office of Equity, Diversity, and Inclusion
E seaton@ucalgary.ca **T** 403-220-6358
<https://profiles.ucalgary.ca/sarah-elaine-eaton>

EDT 916, Education Tower
2500 University Drive NW
Calgary AB, Canada
T2N 1N4

NB: I read and respond to e-mails during the University of Calgary's regular business hours: 08:30 – 16:30, Monday to Friday.



From: ZAHRA OSMAN <zosman2@shaw.ca>
Date: Friday, March 1, 2024 at 10:00 AM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Calgary Science Fair Project - Artificial Intelligence

[△EXTERNAL]

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I read your article in the Calgary Herald and I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

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587-966-6207

Shaw Webmail

zosman2@shaw.ca

Re: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Mon, Mar 04, 2024 08:41 AM
Subject : Re: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence
To : Dennis, Marilyn <madennis@cbe.ab.ca>

Thank you so much for your help! I will send an email this morning.

Have a wonderful day,

Zahra Osman

From: "Dennis, Marilyn" <madennis@cbe.ab.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Sunday, March 3, 2024 11:17:19 AM
Subject: RE: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence

Hello, Zahra.

Thank you for your email. You've chosen a timely and relevant topic for your science fair entry.

The management and use of AI in our schools is work that is delegated to the Chief Superintendent, so I would recommend that you connect with the Office of the Chief Superintendent with your request since they will be best to address your request.

You can reach the Office of the Chief Superintendent at chiefsuperintendent@cbe.ab.ca

All the best with your project! I'd love to hear how it goes!

Marilyn Dennis
Trustee Wards 5 & 10

From: ZAHRA OSMAN <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 10:47 AM
To: Dennis, Marilyn <madennis@cbe.ab.ca>
Subject: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence

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587-966-6207

Shaw Webmail**zosman2@shaw.ca**

Fwd: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca>

Mon, Mar 04, 2024 08:45 AM

Subject : Fwd: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence**To :** chiefsuperintendent@cbe.ab.ca

Good morning!

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

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587-966-6207

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All the best with your project! I'd love to hear how it goes!

Marilyn Dennis
Trustee Wards 5 & 10

From: ZAHRA OSMAN <zosman2@shaw.ca>**Sent:** Friday, March 1, 2024 10:47 AM

To: Dennis, Marilyn <madennis@cbe.ab.ca>

Subject: [EXTERNAL] Calgary Science Fair Project - Artificial Intelligence

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Shaw Webmail**zosman2@shaw.ca**

Re: Calgary Science Fair Project - Artificial Intelligence

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Subject : Re: Calgary Science Fair Project - Artificial Intelligence 📎 1 attachment
To : Sarah Eaton <seaton@ucalgary.ca>

Good afternoon Dr. Eaton,

I hope you are doing well. I was wondering if you were available to meet later this afternoon or tomorrow. I am looking forward to speaking to you.

Thank you,

Zahra Osman

From: "ZAHRA OSMAN" <zosman2@shaw.ca>
To: "Sarah Eaton" <seaton@ucalgary.ca>
Sent: Friday, March 1, 2024 3:38:45 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

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Sarah Elaine Eaton (*she/her*)
Associate Professor
Leadership, Policy, and Governance | Werklund School of Education

Academic Director
Equity, Diversity, and Inclusion Education and Academic Integrity | Office of Equity, Diversity, and Inclusion

E seaton@ucalgary.ca **T** 403-220-6358

<https://profiles.ucalgary.ca/sarah-elaine-eaton>

EDT 916, Education Tower
2500 University Drive NW
Calgary AB, Canada
T2N 1N4

NB: I read and respond to e-mails during the University of Calgary's regular business hours: 08:30 – 16:30, Monday to Friday.



From: ZAHRA OSMAN <zosman2@shaw.ca>
Date: Friday, March 1, 2024 at 10:00 AM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Calgary Science Fair Project - Artificial Intelligence

[△EXTERNAL]

Good morning,

I hope you are doing well! My name is Zahra Osman and I am currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I read your article in the Calgary Herald and I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail**zosman2@shaw.ca**

Re: Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Mon, Mar 04, 2024 01:28 PM
Subject : Re: Calgary Science Fair Project - Artificial Intelligence
To : Leslie Reid <lfreid@ucalgary.ca>
Cc : Wendy Benoit <wlbenoit@ucalgary.ca>, Madison Jensen <madison.jensen@ucalgary.ca>

Thank you! I am looking forward to hearing from Dr. Benoit.

Kind regards,

Zahra Osman

From: "Leslie Reid" <lfreid@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Cc: "Wendy Benoit" <wlbenoit@ucalgary.ca>, "Madison Jensen" <madison.jensen@ucalgary.ca>
Sent: Monday, March 4, 2024 1:26:30 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Hi Zahra,

Happy Monday and thanks for your email and interest in AI detectors in post secondary education. I am no longer in the role of vice provost teaching and learning at UCalgary. I have cc'd our current vice provost Dr. Wendy Benoit who may be able to assist you with your project.

Good luck!

Cheers,

Leslie

Leslie Reid, PhD. | she/her
Teaching Professor | Faculty of Science | University of Calgary
| 2500 University Drive NW
Calgary, Alberta, CANADA T2N 1N4

On Mar 1, 2024, at 10:13 AM, ZAHRA OSMAN <zosman2@shaw.ca> wrote:

[△EXTERNAL]

Good morning,

I hope you are doing well! My name is Zahra Osman and I am a currently in grade 10 at Lester B. Pearson High School. I am conducting a science fair project on the effect of Artificial Intelligence on Academic Integrity that I will be presenting at the Calgary Youth Science Fair this April. My project focuses on the efficacy of current Artificial Intelligence detectors used to screen assignments submitted by students. I read your article in the Calgary Herald and I would appreciate if I could interview you to discuss current policies and regulations in place at the institutional level regarding Artificial Intelligence to help gain more information and expand my project. Thank you so much for your time and I look forward to hearing from you!

Kind regards,

Zahra Osman
587-966-6207

Shaw Webmail

zosman2@shaw.ca

Re: Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Mon, Mar 04, 2024 08:43 PM
Subject : Re: Calgary Science Fair Project - Artificial Intelligence 📎 1 attachment
To : Sarah Eaton <seaton@ucalgary.ca>

Thank you so much Dr. Eaton. I apologize for the late email but I had a basketball game this evening. I am available tomorrow at noon.

Kind regards,

Zahra Osman

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 4:09:12 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Dear Zahra,

Would be available at 11:00 a.m. or 12:00 p.m. (noon) on Tuesday ? If yes, let me know which you prefer and I can send over a Zoom link.

Best,
Sarah Elaine Eaton

From: ZAHRA OSMAN <zosman2@shaw.ca>
Date: Monday, March 4, 2024 at 1:28 PM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

[△EXTERNAL]

Thank you so much!

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 1:21:41 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Dear Zahra,

I can meet tomorrow via Zoom. I can check my schedule when I get home about the time.
Sarah Elaine Eaton

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From: ZAHRA OSMAN <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 12:43:40 PM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

[△EXTERNAL]

Good afternoon Dr. Eaton,

I hope you are doing well. I was wondering if you were available to meet later this afternoon or tomorrow. I am looking forward to speaking to you.

Thank you,

Zahra Osman

From: "ZAHRA OSMAN" <zosman2@shaw.ca>
To: "Sarah Eaton" <seaton@ucalgary.ca>
Sent: Friday, March 1, 2024 3:38:45 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Thank you so much for getting back to me. Monday or Tuesday works for me. What time would you prefer to meet?

Kind regards,

Zahra Osman

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 2:17:41 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Dear Zahra,

How exciting! Yes, I would be happy to talk to you. Could we chat on Monday or Tuesday next week?

Sincerely,
Sarah Elaine Eaton

Sarah Elaine Eaton (*she/her*)
Associate Professor
Leadership, Policy, and Governance | Werklund School of Education

Academic Director
Equity, Diversity, and Inclusion Education and Academic Integrity | Office of Equity, Diversity, and Inclusion
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<https://profiles.ucalgary.ca/sarah-elaine-eaton>

EDT 916, Education Tower
2500 University Drive NW
Calgary AB, Canada
T2N 1N4

NB: I read and respond to e-mails during the University of Calgary's regular business hours: 08:30 – 16:30, Monday to Friday.



From: ZAHRA OSMAN <zosman2@shaw.ca>
Date: Friday, March 1, 2024 at 10:00 AM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Calgary Science Fair Project - Artificial Intelligence

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Zahra Osman
587-966-6207

Shaw Webmail

zosman2@shaw.ca

Accept: Zahra Osman and Sarah Elaine Eaton

From : ZAHRA OSMAN <zosman2@shaw.ca>
Subject : Accept: Zahra Osman and Sarah Elaine Eaton
To : seaton@ucalgary.ca

Mon, Mar 04, 2024 09:00 PM

 1 attachment

Subject: Zahra Osman and Sarah Elaine Eaton
Organizer: seaton@ucalgary.ca

Location
: Microsoft Teams Meeting

Time: Tuesday, March 5, 2024, 12:00:00 PM - 1:00:00 PM GMT -07:00 US/Canada Mountain

Invitees: zosman2@shaw.ca

~~*~*~*~*~*~*~*~*

Yes, I will attend.

Shaw Webmail

zosman2@shaw.ca

Re: Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca> Mon, Mar 04, 2024 09:05 PM
Subject : Re: Calgary Science Fair Project - Artificial Intelligence 📎 2 attachments
To : Sarah Eaton <seaton@ucalgary.ca>

Hi Dr. Eaton,

I look forward to meeting with you as well. I have attached an informed consent form for you to sign so I can use some of the information we discuss for my project. If you have any questions, please let me know.

Have a good night,

Zahra

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 8:51:00 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Dear Zahra,

No problem at all. I've sent a calendar invitation with a Teams link. I look forward to chatting with you tomorrow!

Sarah

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From: ZAHRA OSMAN <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 8:43:23 PM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

[△EXTERNAL]

Thank you so much Dr. Eaton. I apologize for the late email but I had a basketball game this evening. I am available tomorrow at noon.

Kind regards,

Zahra Osman

From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 4:09:12 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

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Best,
Sarah Elaine Eaton

From: ZAHRA OSMAN <zosman2@shaw.ca>
Date: Monday, March 4, 2024 at 1:28 PM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

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Thank you so much!

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To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Monday, March 4, 2024 1:21:41 PM
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Sent: Monday, March 4, 2024 12:43:40 PM
To: Sarah Eaton <seaton@ucalgary.ca>
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

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To: "Sarah Eaton" <seaton@ucalgary.ca>
Sent: Friday, March 1, 2024 3:38:45 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Thank you so much for getting back to me. Monday or Tuesday works for me. What time would you prefer to meet?

Kind regards,

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From: "Sarah Eaton" <seaton@ucalgary.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Sent: Friday, March 1, 2024 2:17:41 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

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From: ZAHRA OSMAN <zosman2@shaw.ca>
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 **Informed Consent Form 2C - Interview.pdf**
356 KB

Shaw Webmail**zosman2@shaw.ca**

Re: Calgary Science Fair Project - Artificial Intelligence

From : ZAHRA OSMAN <zosman2@shaw.ca>
Subject : Re: Calgary Science Fair Project - Artificial Intelligence
To : Sarah Eaton <seaton@ucalgary.ca>

Tue, Mar 05, 2024 12:17 PM

 2 attachments

Hello Dr. Eaton,

Thank you so much for meeting with me today. When you get a chance, can you please sign the informed consent form attached?

Thank you again and I will definitely keep you updated on the progress of my project!

Have a wonderful day,

Zahra Osman

From: "ZAHRA OSMAN" <zosman2@shaw.ca>
To: "Sarah Eaton" <seaton@ucalgary.ca>
Sent: Monday, March 4, 2024 9:05:28 PM
Subject: Re: Calgary Science Fair Project - Artificial Intelligence

Hi Dr. Eaton,

I look forward to meeting with you as well. I have attached an informed consent form for you to sign so I can use some of the information we discuss for my project. If you have any questions, please let me know.

Have a good night,

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Zahra Osman
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 **Informed Consent Form 2C - Interview.pdf**
356 KB

Shaw Webmail**zosman2@shaw.ca**

Re: response I Science Fair question

From : ZAHRA OSMAN <zosman2@shaw.ca>

Thu, Mar 07, 2024 04:34 PM

Subject : Re: response I Science Fair question**To :** CBE Area 1 Office <area1@cbe.ab.ca>

Hello Aubrey,

Thank you very much for your reply.

My teacher sponsor is Benjamin Webster. What drew me to this topic is the growing popularity of AI and its fast development and integration in school settings. It came to my attention that the use of AI has become a common discussion amongst my peers and teachers. My teachers have all discussed AI use for assignments and truly emphasized the aspect of plagiarism which had me question the tools and teachers' ability to detect AI content in student work. As someone who enjoys literature and writing, this topic is very prevalent in assessing the effect AI has on academic integrity.

I was hoping to obtain more knowledge on the following:

1. What methods, if any, do educators use to identify plagiarism in oral/visual presentations, without the use of detectors?
2. What effect do you believe Ai has on academic integrity regarding the education system?
3. How can Ai be appropriately used and integrated into the education system while avoiding plagiarism and unhealthy dependance?
4. What Ai detector do educators use when reviewing student work? How accurate is it in detecting Ai content- does it identify everything?
5. Are there guidelines in place on what detectors educators should use?
6. Can Ai detectors detect paraphrased Ai content that has not been cited?
7. As Ai evolves, does the need for increased regulation also? How can we keep up with this fast development and ensure it is not abused or replace current required human roles?

I believe AI has both positive and negative effects. AI highlights our advanced technological development and can have implications in multiple fields. However, consequences may include increased dependency on AI as well as it being a potential threat to appropriately crediting original ideas.

I look forward to hearing back form you!
- Zahra

From: "CBE Area 1 Office" <area1@cbe.ab.ca>**To:** "zosman2" <zosman2@shaw.ca>**Cc:** "School Improvement" <SchoolImprovement@cbe.ab.ca>, "CBE Area 1 Office" <area1@cbe.ab.ca>**Sent:** Thursday, March 7, 2024 7:45:59 AM**Subject:** response I Science Fair question

Hello Zahra,

Thank you for reaching out to School Improvement about your Science Fair question, it sounds like a great one! I oversee and work alongside the Teaching and Learning with Technology Team and wanted to reach out to ask a few questions about your project so that we can be well prepared to support your work. We want to be sure we can answer your questions as thoroughly as possible and share key resources around our work in developing AI guidelines as they relate to use within the board.

1. I see you are from Pearson (I was in Whitehorn before taking this job, drove past there every day!), who is your teacher sponsor for the Youth Science Fair?
2. Can you share a bit about what drew you to the topic of AI and its use for screening assignments?
3. What are you hoping to know more about in terms of AI in schools?
4.
 - a. For example: How it is used? The different applications for AI across school settings (elementary/middle/senior high)?
5. What is your experience as a student with AI both in your usage in and outside school?
6. What excites you about AI and what worries you?

I hate to ask to do this via email but, to start, it would help me decide with whom you might best speak.

Looking forward to connecting with you,

Aubrey

Aubrey Fletcher (she/her)
Acting Education Director, Area 1
Calgary Board of Education www.cbe.ab.ca
t| 403-777-8710

The Calgary Board of Education is located within the traditional territories of the Blackfoot Nations. The Treaty 7 region of Southern of Alberta include the Siksika, the Piikani, the Kainai, the Tsuut'ina, and the Stoney Nakoda people. The city of Calgary is also home to the Métis Nation Region 3.
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Re: response I Science Fair question

From : ZAHRA OSMAN <zosman2@shaw.ca> Wed, Mar 13, 2024 08:25 AM
Subject : Re: response I Science Fair question
To : CBE Area 1 Office <area1@cbe.ab.ca>
Cc : School Improvement <SchoolImprovement@cbe.ab.ca>

Good morning!

I was wondering if you were able to find someone who can discuss some of the questions I sent below. Please let me know if you have any questions.

Thank you,

Zahra Osman

From: "ZAHRA OSMAN" <zosman2@shaw.ca>
To: "CBE Area 1 Office" <area1@cbe.ab.ca>
Sent: Thursday, March 7, 2024 4:34:01 PM
Subject: Re: response I Science Fair question

Hello Aubrey,

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I look forward to hearing back from you!
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From: "CBE Area 1 Office" <area1@cbe.ab.ca>
To: "zosman2" <zosman2@shaw.ca>
Cc: "School Improvement" <SchoolImprovement@cbe.ab.ca>, "CBE Area 1 Office" <area1@cbe.ab.ca>
Sent: Thursday, March 7, 2024 7:45:59 AM
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Shaw Webmail

zosman2@shaw.ca

Re: Mar 13th response I Science Fair question

From : ZAHRA OSMAN <zosman2@shaw.ca> Thu, Mar 14, 2024 04:45 PM
Subject : Re: Mar 13th response I Science Fair question
To : CBE Area 1 Office <area1@cbe.ab.ca>
Cc : School Improvement <SchoolImprovement@cbe.ab.ca>

Hello!

Thank you for getting back to me. Do you have time on Monday or Tuesday at noon? If not, I can ask one of my teachers to let me conduct the meeting during class time.

Thank you,

Zahra Osman

From: "CBE Area 1 Office" <area1@cbe.ab.ca>
To: "ZAHRA OSMAN" <zosman2@shaw.ca>
Cc: "School Improvement" <SchoolImprovement@cbe.ab.ca>, "CBE Area 1 Office" <area1@cbe.ab.ca>
Sent: Wednesday, March 13, 2024 10:37:29 AM
Subject: Mar 13th response I Science Fair question

Hi Zahra,

Sorry to keep you waiting, we are immersed in a few big projects right now. Can we line up a Teams meeting with you early next week? Do you have a spare or is there a time that might be best for you?

Aubrey

Aubrey Fletcher (she/her)
Acting Education Director, Area 1
Calgary Board of Education www.cbe.ab.ca
t| 403-777-8710

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From: ZAHRA OSMAN <zosman2@shaw.ca>
Sent: Wednesday, March 13, 2024 8:26 AM
To: CBE Area 1 Office <area1@cbe.ab.ca>
Cc: School Improvement <SchoolImprovement@cbe.ab.ca>
Subject: [EXTERNAL] Re: response I Science Fair question

ATTENTION: This message came from outside of the CBE and could be Spam or Phishing.

Do not click links or open attachments unless you recognize the sender and you are certain that the content is safe. [[Learn More](#)]

Forward suspicious messages to phishing@cbe.ab.ca.

Good morning!

I was wondering if you were able to find someone who can discuss some of the questions I sent below. Please let me know if you have any questions.

Thank you,

Zahra Osman

From: "ZAHRA OSMAN" <zosman2@shaw.ca>

To: "CBE Area 1 Office" <area1@cbe.ab.ca>

Sent: Thursday, March 7, 2024 4:34:01 PM

Subject: Re: response I Science Fair question

Hello Aubrey,

Thank you very much for your reply.

My teacher sponsor is Benjamin Webster. What drew me to this topic is the growing popularity of AI and its fast development and integration in school settings. It came to my attention that the use of AI has become a common discussion amongst my peers and teachers. My teachers have all discussed AI use for assignments and truly emphasized the aspect of plagiarism which had me question the tools and teachers' ability to detect AI content in student work. As someone who enjoys literature and writing, this topic is very prevalent in assessing the effect AI has on academic integrity.

I was hoping to obtain more knowledge on the following:

1. What methods, if any, do educators use to identify plagiarism in oral/visual presentations, without the use of detectors?
2. What effect do you believe Ai has on academic integrity regarding the education system?
3. How can Ai be appropriately used and integrated into the education system while avoiding plagiarism and unhealthy dependence?
4. What Ai detector do educators use when reviewing student work? How accurate is it in detecting Ai content- does it identify everything?
5. Are there guidelines in place on what detectors educators should use?
6. Can Ai detectors detect paraphrased Ai content that has not been cited?
7. As Ai evolves, does the need for increased regulation also? How can we keep up with this fast development and ensure it is not abused or replace current required human roles?

I believe AI has both positive and negative effects. AI highlights our advanced technological development and can have implications in multiple fields. However, consequences may include increased dependency on AI as well as it being a potential threat to appropriately crediting original ideas.

I look forward to hearing back from you!
- Zahra

From: "CBE Area 1 Office" <area1@cbe.ab.ca>
To: "zosman2" <zosman2@shaw.ca>
Cc: "School Improvement" <SchoolImprovement@cbe.ab.ca>, "CBE Area 1 Office" <area1@cbe.ab.ca>
Sent: Thursday, March 7, 2024 7:45:59 AM
Subject: response I Science Fair question

Hello Zahra,

Thank you for reaching out to School Improvement about your Science Fair question, it sounds like a great one! I oversee and work alongside the Teaching and Learning with Technology Team and wanted to reach out to ask a few questions about your project so that we can be well prepared to support your work. We want to be sure we can answer your questions as thoroughly as possible and share key resources around our work in developing AI guidelines as they relate to use within the board.

1. I see you are from Pearson (I was in Whitehorn before taking this job, drove past there every day!), who is your teacher sponsor for the Youth Science Fair?
2. Can you share a bit about what drew you to the topic of AI and its use for screening assignments?
3. What are you hoping to know more about in terms of AI in schools?
- 4.
4.
 - a. For example: How it is used? The different applications for AI across school settings (elementary/middle/senior high)?
5. What is your experience as a student with AI both in your usage in and outside school?
6. What excites you about AI and what worries you?

I hate to ask to do this via email but, to start, it would help me decide with whom you might best speak.

Looking forward to connecting with you,

Aubrey

Aubrey Fletcher (she/her)
Acting Education Director, Area 1
Calgary Board of Education www.cbe.ab.ca
t| 403-777-8710

The Calgary Board of Education is located within the traditional territories of the Blackfoot Nations. The Treaty 7 region of Southern of Alberta include the Siksika, the Piikani, the Kainai, the Tsuut'ina, and the Stoney Nakoda people. The city of Calgary is also home to the Métis Nation Region 3.
The contents of this email and any attachment(s) are confidential and intended for the named recipient only. If you have received this email in error, please notify the sender immediately, delete this email and do not copy, use or disclose it.



Zahra Osman <zahrao3@educbe.ca>

Calgary Youth Science Fair

7 messages

Zahra Osman <zahrao3@educbe.ca>

Mon, Mar 4, 2024 at 8:01 AM

To: BLBenard@cbe.ab.ca, FrWheaton@cbe.ab, MiHaynes@cbe.ab.ca, habaudner@cbe.ab.ca, "srshoults@cbe.ab.ca" <srshoults@cbe.ab.ca>

Cc: Benjamin <bewebster@cbe.ab.ca>

Good morning,

My name is Zahra Osman and I am a grade ten student. This year will be my sixth year participating in the Calgary Youth Science Fair. My project this year is about the accuracy of artificial intelligence (AI) detectors and the impact of AI on academic integrity. I am conducting an experiment to test this, and would greatly appreciate it if you could participate in it! The experiment will take ten minutes of your time and involves giving you three paragraphs where you will have to identify if each paragraph contains AI-generated content. I would like to conduct the experiment on Wednesday if possible. Please let me know if morning, lunch, or after school works best for you. As I am a grade ten student, I have not had the opportunity to meet other teachers. Do you know of any other teachers I could contact for this experiment?

Thank you,
Zahra Osman

Mail Delivery Subsystem <mailer-daemon@googlemail.com>

Mon, Mar 4, 2024 at 8:01 AM

To: zahrao3@educbe.ca



Address not found

Your message wasn't delivered to **FrWheaton@cbe.ab** because the domain **cbe.ab** couldn't be found. Check for typos or unnecessary spaces and try again.

[LEARN MORE](#)

The response was:

DNS Error: DNS type 'mx' lookup of cbe.ab responded with code NXDOMAIN Domain name not found: cbe.ab For more information, go to <https://support.google.com/mail/?p=BadRcptDomain>

Final-Recipient: rfc822; FrWheaton@cbe.ab

Action: failed

Status: 5.1.2

Diagnostic-Code: smtp; DNS Error: DNS type 'mx' lookup of cbe.ab responded with code NXDOMAIN

Domain name not found: cbe.ab For more information, go to <https://support.google.com/mail/?p=BadRcptDomain>

Last-Attempt-Date: Mon, 04 Mar 2024 07:01:42 -0800 (PST)

----- Forwarded message -----

From: Zahra Osman <zahrao3@educbe.ca>

To: BLBenard@cbe.ab.ca, FrWheaton@cbe.ab.ca, MiHaynes@cbe.ab.ca, habaudner@cbe.ab.ca, "srshoults@cbe.ab.ca" <srshoults@cbe.ab.ca>

Cc: Benjamin <bewebster@cbe.ab.ca>

Bcc:

Date: Mon, 4 Mar 2024 08:01:29 -0700

Subject: Calgary Youth Science Fair

Good morning,

My name is Zahra Osman and I am a grade ten student. This year will be my sixth year participating in the Calgary Youth Science Fair. My project this year is about the accuracy of artificial intelligence (AI) detectors and the impact of AI on academic integrity. I am conducting an experiment to test this, and would greatly appreciate it if you could participate in it! The experiment will take ten minutes of your time and involves giving you three paragraphs where you will have to identify if each paragraph contains AI-generated content. I would like to conduct the experiment on Wednesday if possible. Please let me know if morning, lunch, or after school works best for you. As I am a grade ten student, I have not had the opportunity to meet other teachers. Do you know of any other teachers I could contact for this experiment?

Thank you,
Zahra Osman

Webster, Benjamin <bewebster@cbe.ab.ca>

To: Zahra Osman <zahrao3@educbe.ca>

Mon, Mar 4, 2024 at 8:05 AM

Hi Zahra,

I'm happy to push this through the science department. Where on Wednesday at lunch/ afterschool can I send people to help you generate data? Would it help if I had my room (2154) open for you as a home base that day?

Webster

From: Zahra Osman <zahrao3@educbe.ca>

Sent: Monday, March 4, 2024 8:01 AM

To: Benard, Brent L <blbenard@cbe.ab.ca>; FrWheaton@cbe.ab.ca <FrWheaton@cbe.ab.ca>; Haynes, Michaella <MiHaynes@cbe.ab.ca>; Baudner, Hamilton <habaudner@cbe.ab.ca>; Shoults, Stephen R <srshoults@cbe.ab.ca>

Cc: Webster, Benjamin <bewebster@cbe.ab.ca>

Subject: Calgary Youth Science Fair

[Quoted text hidden]

Zahra Osman <zahrao3@educbe.ca>

To: "Webster, Benjamin" <bewebster@cbe.ab.ca>

Mon, Mar 4, 2024 at 8:12 AM

Hi Mr. Webster,

That would be great. I'm going to stop by at lunch today to talk to you and then we can make final arrangements.

Thank you,
Zahra

Baudner, Hamilton <habaudner@cbe.ab.ca>

To: Zahra Osman <zahrao3@educbe.ca>

Mon, Mar 4, 2024 at 9:42 AM

Anytime.

Monday and Friday lunch I'm in the LC doing supervision- that works

Thanks Zahra

Baudner

"Be the change you wish to see in the world"

From: Zahra Osman <zahrao3@educbe.ca>

Sent: Monday, March 4, 2024 8:01:29 AM

To: Benard, Brent L <blbenard@cbe.ab.ca>; FrWheaton@cbe.ab <FrWheaton@cbe.ab>; Haynes, Michaela <MiHaynes@cbe.ab.ca>; Baudner, Hamilton <habaudner@cbe.ab.ca>; Shoults, Stephen R <srsoults@cbe.ab.ca>

Cc: Webster, Benjamin <bewebster@cbe.ab.ca>

Subject: Calgary Youth Science Fair

[Quoted text hidden]

Shoults, Stephen R <srsoults@cbe.ab.ca>

To: Zahra Osman <zahrao3@educbe.ca>

Mon, Mar 4, 2024 at 10:28 AM

I am willing to participate.

Stephen Shoults

English Language Arts

Lester B. Pearson High School

Calgary Board of Education | www.cbe.ab.ca

t | 403-280-6565

I acknowledge that I am located on the traditional territories of the people of the Treaty 7 region in Southern Alberta, which includes the Blackfoot Confederacy (including the Siksika, Piikuni, Kainai First Nations), the Tsuut'ina, and the Stoney Nakoda (including the Chiniki, Bearspaw, and Wesley First Nations). The City of Calgary is also home to Metis Nation of Alberta, Region 3.

From: Zahra Osman <zahrao3@educbe.ca>

Date: Monday, March 4, 2024 at 8:01 AM

To: "Benard, Brent L" <blbenard@cbe.ab.ca>, "FrWheaton@cbe.ab" <FrWheaton@cbe.ab>, "Haynes, Michaela" <MiHaynes@cbe.ab.ca>, "Baudner, Hamilton" <habaudner@cbe.ab.ca>, "Shoults, Stephen R" <srsoults@cbe.ab.ca>

Cc: "Webster, Benjamin" <bewebster@cbe.ab.ca>

Subject: Calgary Youth Science Fair

Good morning,

[Quoted text hidden]

Benard, Brent L <blbenard@cbe.ab.ca>
To: Zahra Osman <zahrao3@educbe.ca>

Mon, Mar 4, 2024 at 12:24 PM

This is so interesting. I would love to participate.

From: Zahra Osman <zahrao3@educbe.ca>
Sent: Monday, March 4, 2024 8:01 AM
To: Benard, Brent L <blbenard@cbe.ab.ca>; FrWheaton@cbe.ab; Haynes, Michaela <MiHaynes@cbe.ab.ca>;
Baudner, Hamilton <habaudner@cbe.ab.ca>; Shoults, Stephen R <srshoults@cbe.ab.ca>
Cc: Webster, Benjamin <bewebster@cbe.ab.ca>
Subject: Calgary Youth Science Fair

Good morning,

[Quoted text hidden]



Zahra Osman <zahrao3@educbe.ca>

Science Fair Questionnaire

1 message

Webster, Benjamin <bewebster@cbe.ab.ca>

Mon, Mar 4, 2024 at 12:00 PM

To: "Butlin, Ryan" <RyButlin@cbe.ab.ca>, "Mithani, Narmeen" <narmithani@cbe.ab.ca>, Amra Rashid <amra.rashid@ucalgary.ca>, "Berry, Trevor D" <tdberry@cbe.ab.ca>, "O'Neil, Christopher M" <cmoneil@cbe.ab.ca>, "Taylor, Jocelyn" <JoTaylor@cbe.ab.ca>, "Tran, Kevin" <KeTran@cbe.ab.ca>, "Trautmann, Samantha M" <smtrautmann@cbe.ab.ca>, "Mason, Mark L" <mlmason@cbe.ab.ca>, "Bhandari, Luvdeep S" <lsbhandari@cbe.ab.ca>, "Buchan, Gillian G" <ggbuchan@cbe.ab.ca>, "Easingwood, Bradley M" <bmeasingwood@cbe.ab.ca>, "Haynes, Michaela" <MiHaynes@cbe.ab.ca>, "Shoults, Stephen R" <srsoults@cbe.ab.ca>, "Baudner, Hamilton" <habaudner@cbe.ab.ca>
Cc: Zahra Osman <zahrao3@educbe.ca>

Hey Team,

Thanks for agreeing to support one of our own with her science fair project.

Zahra Osman will be available in room 2154 on Wednesday from 8:00-8:30, Lunch time and from 3:45-4:15 with a brief piece to collect data for her project. Please pop by during a time that works. Expect it will take 10 minutes to complete.

Zahrah is attached here so you can email her any additional questions. She'll have a so she knows who remembers and who gets... distracted.

Thanks so much for supporting our students!

Benjamin Webster

Pronouns: he/him/his

Science and Leadership Teacher | Lester B. Pearson

Calgary Board of Education

t | (403) 280-6565

Key Resources	Telephone	Website
Community and Social Service Support (24/7)	Call 2-1-1	www.ab.211.ca
Health Link 811 (24/7)	Call 8-1-1	Health Link 8-1-1
Addiction Helpline (24/7)	1 (866) 332-2322	www. Addiction & Mental Health
Distress Centre Calgary (24/7) – Crisis Line	(403) 266-4357	https://www.distresscentre.com/

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**Calgary Board
of Education**

Zahra Osman <zahrao3@educbe.ca>

Calgary Youth Science Fair

Benard, Brent L <blbenard@cbe.ab.ca>
To: Zahra Osman <zahrao3@educbe.ca>

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Cc: Webster, Benjamin <bewebster@cbe.ab.ca>
Subject: Calgary Youth Science Fair

Good morning,

[Quoted text hidden]



Zahra Osman <zahrao3@educbe.ca>

Calgary Youth Science Fair

Shoults, Stephen R <srshoults@cbe.ab.ca>
To: Zahra Osman <zahrao3@educbe.ca>

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English Language Arts

Lester B. Pearson High School

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Date: Monday, March 4, 2024 at 8:01 AM

To: "Benard, Brent L" <blbenard@cbe.ab.ca>, "FrWheaton@cbe.ab" <FrWheaton@cbe.ab>, "Haynes, Michaela" <MiHaynes@cbe.ab.ca>, "Baudner, Hamilton" <habaudner@cbe.ab.ca>, "Shoults, Stephen R" <srshoults@cbe.ab.ca>

Cc: "Webster, Benjamin" <bewebster@cbe.ab.ca>

Subject: Calgary Youth Science Fair

Good morning,

[Quoted text hidden]

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

You are invited to take part in a research study. Before you decide to be a part of this study, you need to understand the risks and benefits. This consent form provides information about the research. If you agree to participate in this research, you will be asked to sign this consent form before taking part. This process is known as *Informed Consent*.

Student Researcher (1): Zahra Osman

School: Lester B. Pearson High School

School Phone: 403-280-6565

Student Researcher (2):

School:

School Phone:

Project Title: Have I Seen You Before? AI Meets AI

Science Fair Coordinator (Adult Supervisor):

Name: Benjamin Webster

Phone: 403-280-6565

Project Description:

I have been investigating the effectiveness of different artificial intelligence (AI) detectors. I found discrepancies regarding the detectors' ability to distinguish between human and AI-generated text. For my experiment, I would like to determine the types of AI detectors used by educators, and the methods employed to ensure academic integrity is maintained in classrooms. I will then use this acquired knowledge to assess the ability of teachers to detect AI-generated content. This will be in the form of a reading assessment.

Your benefits from participating:

Being a part of research that can be used to help propose strategies to increase academic integrity and help guide future guidelines.

Your risks from participating:

No risks.

Your time commitment:

10 minutes

The confidentiality of your data:

The results of this research will be given with all information about individual participants removed. No personal information will be stored on a computer. All information on paper that could be used to identify individuals will be shredded at the end of the research project.

Withdrawal:

Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.

Review:

This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.

Feedback:

The results of this research will be provided to you in the public presentation of the Science Fair Project.

By signing below, you are agreeing to participate in this study.

Name Luvdeep Bhandari (please print)

Signature [Signature] Date Mar 6, 2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature [Signature] Date March 1, 2024

INFORMED CONSENT FORM 2C



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Student Researcher (1): Zahra Osman School: Lester B. Pearson High School School Phone: 403-280-6565	Student Researcher (2): School: School Phone:
------------------------------------------------------------------------------------------------------------	-----------------------------------------------------

Project Title: Have I Seen You Before? AI Meets AI

Science Fair Coordinator (Adult Supervisor):
Name: Benjamin Webster **Phone:** 403-280-6565

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Your risks from participating:
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Your time commitment:
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Feedback:

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By signing below, you are agreeing to participate in this study.

Name Jimmy Lam (please print)
 Signature Date Mar 3 2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098
 Signature Date March 1, 2024

INFORMED CONSENT FORM 2C



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Project Title: Have I Seen You Before? AI Meets AI	
Science Fair Coordinator (Adult Supervisor): Name: Benjamin Webster Phone: 403-280-6565	
Project Description: I have been investigating the effectiveness of different artificial intelligence (AI) detectors. I found discrepancies regarding the detectors' ability to distinguish between human and AI-generated text. For my experiment, I would like to determine the types of AI detectors used by educators, and the methods employed to ensure academic integrity is maintained in classrooms. I will then use this acquired knowledge to assess the ability of teachers to detect AI-generated content. This will be in the form of a reading assessment.	
Your benefits from participating: Being a part of research that can be used to help propose strategies to increase academic integrity and help guide future guidelines.	
Your risks from participating: No risks.	
Your time commitment: 10 minutes	
The confidentiality of your data: The results of this research will be given with all information about individual participants removed. No personal information will be stored on a computer. All information on paper that could be used to identify individuals will be shredded at the end of the research project.	
Withdrawal: Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.	
Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>M. d'Veil</u> (please print) Signature <u>M. d'Veil</u> Date <u>March 6 2024</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u>M. Osman</u> Date <u>March 1, 2024</u>	

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

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Student Researcher (1): Zahra Osman School: Lester B. Pearson High School School Phone: 403-280-6565	Student Researcher (2): School: School Phone:
Project Title: Have I Seen You Before? AI Meets AI	
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Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Jacelyn Taylor</u> (please print) Signature <u>[Handwritten Signature]</u> Date <u>March 6th/24</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u>[Handwritten Signature]</u> Date <u>March 1, 2024</u>	

INFORMED CONSENT FORM 2C



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Student Researcher (1): Zahra Osman School: Lester B. Pearson High School School Phone: 403-280-6565	Student Researcher (2): School: School Phone:
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Project Title: Have I Seen You Before? AI Meets AI

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Name: Benjamin Webster **Phone:** 403-280-6565

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Feedback:

The results of this research will be provided to you in the public presentation of the Science Fair Project.

By signing below, you are agreeing to participate in this study.

Name Emilio M. (please print)

Signature Date 2024/03/06

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature Date March 1, 2024

INFORMED CONSENT FORM 2C



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Project Title: Have I Seen You Before? AI Meets AI	
Science Fair Coordinator (Adult Supervisor): Name: Benjamin Webster Phone: 403-280-6565	
Project Description: I have been investigating the effectiveness of different artificial intelligence (AI) detectors. I found discrepancies regarding the detectors' ability to distinguish between human and AI-generated text. For my experiment, I would like to determine the types of AI detectors used by educators, and the methods employed to ensure academic integrity is maintained in classrooms. I will then use this acquired knowledge to assess the ability of teachers to detect AI-generated content. This will be in the form of a reading assessment.	
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Your risks from participating: No risks.	
Your time commitment: 10 minutes	
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Withdrawal: Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.	
Review: This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.	
Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Samantha Trautmann</u> (please print) Signature <u>[Signature]</u> Date <u>Mar 6, 2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u>[Signature]</u> Date <u>March 1, 2024</u>	

INFORMED CONSENT FORM 2C



CALGARY YOUTH SCIENCE FAIR

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Student Researcher (1): Zahra Osman School: Lester B. Pearson High School School Phone: 403-280-6565	Student Researcher (2): School: School Phone:
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Project Title: Have I Seen You Before? AI Meets AI

Science Fair Coordinator (Adult Supervisor):
Name: Benjamin Webster **Phone:** 403-280-6565

Project Description:

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Your risks from participating:
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Your time commitment:
 10 minutes

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Feedback:

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By signing below, you are agreeing to participate in this study.

Name Trevor Berry (please print)
 Signature [Handwritten Signature] Date March 6, 2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098
 Signature [Handwritten Signature] Date March 1, 2024

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Brad Fushigeraud</u> (please print) Signature <u>[Signature]</u> Date <u>Mar. 6</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u>[Signature]</u> Date <u>March 1, 2024</u>	

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Fraser Wheaton</u> (please print) Signature <u></u> Date <u>March 6, 2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u></u> Date <u>March 1, 2024</u>	

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By signing below, you are agreeing to participate in this study.

Name Heather Deschner (please print)

Signature [Handwritten Signature] Date _____

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I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature [Handwritten Signature] Date March 1, 2024

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Feedback:

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By signing below, you are agreeing to participate in this study.

Name Chantal Laforest (please print)

Signature *C. Laforest* Date March 6th

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature *M. Osman* Date March 1, 2024

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Feedback:

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By signing below, you are agreeing to participate in this study.

Name Tammy Lock (please print)

Signature *T Lock* Date Mar. 6, 2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature *M Osman* Date March 1, 2024

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Feedback:
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By signing below, you are agreeing to participate in this study.

Name Ryan Butlin (please print)
Signature R. Butlin Date March 6th, 2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098
Signature M. Osman Date March 1, 2024

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Kevin Tran</u> (please print) Signature <u>[Signature]</u> Date <u>March 6th</u>	
If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u>[Signature]</u> Date <u>March 1, 2024</u>	

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Feedback:
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By signing below, you are agreeing to participate in this study.

Name Brent Bernard (please print)
Signature [Signature] Date March 6 2024

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I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature [Signature] Date March 1, 2024

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Feedback: The results of this research will be provided to you in the public presentation of the Science Fair Project.	
By signing below, you are agreeing to participate in this study. Name <u>Michaela Haynes</u> (please print) Signature <u><i>Michaela Haynes</i></u> Date <u>March 6 / 2024</u> If this participant is under the age of 18, permission of a parent or guardian is also required: I give permission for the person named above to participate in this study. Name <u>Mouna Osman</u> (please print) Phone <u>403-891-0098</u> Signature <u><i>M. Osman</i></u> Date <u>March 1, 2024</u>	

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Student Researcher (1): Zahra Osman

School: Lester B. Pearson High School

School Phone: 403-280-6565

Student Researcher (2):

School:

School Phone:

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Phone: 403-280-6565

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Feedback:

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By signing below, you are agreeing to participate in this study.

Name Amra Rashid (please print)

Signature [Signature] Date 03/06/2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature [Signature] Date March 1, 2024

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By signing below, you are agreeing to participate in this study.

Name Hamilton Baucher (please print)

Signature [Signature] Date March 8/2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

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Name Mouna Osman (please print) Phone 403-891-0098

Signature [Signature] Date March 1, 2024

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Name: Benjamin Webster Phone: 403-280-6565

Project Description:
I have been investigating the effectiveness of different artificial intelligence (AI) detectors. I found discrepancies regarding the detectors' ability to distinguish between human and AI-generated text. For my experiment, I would like to determine the types of AI detectors used by educators, and the methods employed to ensure academic integrity is maintained in classrooms. I will then use this acquired knowledge to assess the ability of teachers to detect AI-generated content. This will be in the form of a reading assessment.

Your benefits from participating:
Being a part of research that can be used to help propose strategies to increase academic integrity and help guide future guidelines.

Your risks from participating:
No risks.

Your time commitment:
10 minutes

The confidentiality of your data:
The results of this research will be given with all information about individual participants removed. No personal information will be stored on a computer. All information on paper that could be used to identify individuals will be shredded at the end of the research project.

Withdrawal:
Your participation is voluntary, and you have the right to withdraw at any time for any reason. If you wish to do so, please talk to the Science Fair Coordinator/Adult Supervisor.

Review:
This project has been reviewed by the Ethics Committee of the Calgary Youth Science Fair Society and has received permission to proceed.

Feedback:
The results of this research will be provided to you in the public presentation of the Science Fair Project.

By signing below, you are agreeing to participate in this study.

Name KENNETH CHEE (please print)
Signature [Signature] Date March 7/2024

If this participant is under the age of 18, permission of a parent or guardian is also required:

I give permission for the person named above to participate in this study.

Name Mouna Osman (please print) Phone 403-891-0098

Signature [Signature] Date March 1, 2024



Have I Seen You Before? AI Meets AI



My name is Zahra Osman, and I am a grade 10 student participating in the Calgary Youth Science Fair. The purpose of my project is to evaluate the accuracy of artificial intelligence (AI) detectors and assess the impact of AI on academic integrity. This experiment should take 10 minutes of your time and thank you for your participation! As a reminder, it is anonymous.

Instructions:

You will be provided with three separate paragraphs. After reading each paragraph, answer the questions that follow. You are only allowed to read each paragraph for a maximum of **two times**. Please read each paragraph and answer the questions before moving on to the next paragraph and questions. There will also be a survey for you to complete after you have read the paragraphs.

Paragraph 1

Collaboration fosters synergy among individuals and groups, combining diverse perspectives and expertise to tackle complex challenges more effectively.¹ By pooling resources and knowledge, collaboration accelerates innovation and problem-solving, leading to more robust solutions.² Moreover, collaboration cultivates a sense of shared ownership and accountability, fostering stronger relationships and teamwork.³ In a world that is rapidly evolving, collaboration is crucial for stimulating progress, acquiring resilience, and reaching collective success.⁴ Outside of the workplace, collaboration encourages progress in various fields from scientific research to community development, cultivating resilience and adaptability when confronted with challenges.⁵ To succeed when collaborating, factors such as mutual respect, willingness to accommodate for the collective benefit, and effective communication is required.⁶ By transcending personal limitations and obstacles, collaboration portrays the creativity and ingenuity of the collective, leading to advancements that benefit all of society.⁷ Overall, the importance of collaboration is established by its ability to unite people, resources, and ideas, towards familiar goals, creating a better future for the generations to come.⁸

Do you think this paragraph was human-generated, AI-generated, or a combination of the two?

- a. Human-generated
- b. AI-generated
- c. Both

If you answered b or c, please check off the sentences that you think were AI-generated? The superscripts in the paragraph correspond to each sentence number.

- Sentence 1
- Sentence 2
- Sentence 3
- Sentence 4
- Sentence 5
- Sentence 6
- Sentence 7
- Sentence 8

Paragraph 1

Experiment Question: Do you think this paragraph was human-generated, AI-generated, or a combination of the two?

Correct Answer: **Both**

- 9% of participants identified this paragraph as being human-generated.
- 68% of participants identified this paragraph as being AI-generated.
- 23% of participants **correctly** identified this paragraph as being a combination of human-generated and AI-generated.

Option	Number of Participants	Percentage (%)
Human-generated	2	9
AI-generated	15	68
Both	5	23

Experiment Question: If you answered b or c, please check off the sentences that you think were AI-generated.

Correct Answer: **Sentences 1-4 were AI-generated.**

Sentence Number	Number of Times Selected
1	4
2	7
3	6
4	3
5	15
6	15
7	16
8	15

Analysis:

What percentage of participants correctly identified the 4 AI-generated sentences?

Number of AI-generated Sentences	Number of Participants	Percentage (%)
0	18	82
1	3	14
2	1	4
3	0	0
4	0	0

- 82% of participants did not identify any of the AI-generated sentences.
- 14% of participants identified one AI-generated sentence.
- 4% of participants identified two AI-generated sentences.
- None of the participants identified three AI-generated sentences.
- None of the participants identified all four AI-generated sentences.

Paragraph 2

Experiment Question: Do you think this paragraph was human-generated, AI-generated, or a combination of the two?

Correct Answer: **Human-generated**

- 14% of participants **correctly** identified this paragraph as being human-generated.
- 9% of participants identified this paragraph as being AI-generated.
- 77% of participants identified this paragraph as being a combination of human-generated and AI-generated.

Option	Number of Participants	Percentage (%)
Human-generated	3	14
AI-generated	2	9
Both	17	77

Experiment Question: If you answered b or c, please check off the sentences that you think were AI-generated.

Correct Answer: **0 sentences were AI-generated.**

Sentence Number	Number of Times Selected
1	2
2	13
3	12
4	9
5	7
6	5
7	13
8	10

Analysis:

What percentage of participants correctly identified that there were 0 AI-generated sentences?

Number of AI-generated Sentences	Number of Participants	Percentage (%)
0	2	9
1	2	9
2	0	0
3	4	18
4	7	32
5	3	14
6	0	0
7	1	4
8	3	14

- 9% of participants correctly did not identify any AI-generated sentences.
- 9% of participants selected one AI-generated sentence.
- 0% of participants selected two AI-generated sentences.
- 18% of participants selected three AI-generated sentences.
- 32% of participants selected four AI-generated sentences.
- 14% participants selected five AI-generated sentences.
- 0% of participants selected six AI-generated sentences.
- 4% of participants selected seven AI-generated sentences.
- 14% of participants selected eight AI-generated sentences.

Paragraph 3

Experiment Question: Do you think this paragraph was human-generated, AI-generated, or a combination of the two?

Correct Answer: **AI-generated**

- 48% of participants identified this paragraph as being human-generated.
- 9% of participants **correctly** identified this paragraph as being AI-generated.
- 43% of participants identified this paragraph as being a combination of human-generated and AI-generated.

Option	Number of Participants*	Percentage (%)
Human-generated	10	48
AI-generated	2	9
Both	9	43

*One participant did not answer this question.

Experiment Question: If you answered b or c, please check off the sentences that you think were AI-generated.

Correct Answer: **Sentences 1-8 were AI-generated.**

Sentence Number	Number of Times Selected
1	15
2	15
3	16
4	16
5	17
6	12
7	15
8	14

Analysis:

What percentage of participants correctly identified that there were 8 AI-generated sentences?

Number of AI-generated Sentences	Number of Participants	Percentage (%)
0	11	50
1	1	4
2	2	9
3	2	9
4	3	14
5	1	4
6	0	0
7	0	0
8	2	9

- 50% of participants did not identify any AI-generated sentences.
- 4% of participants identified one AI-generated sentence.
- 9% of participants identified two AI-generated sentences.
- 9% of participants identified three AI-generated sentences.
- 14% of participants identified four AI-generated sentences.
- 4% participants identified five AI-generated sentences.
- 0% of participants identified six AI-generated sentences.
- 0% of participants identified seven AI-generated sentences.
- 9% of participants correctly identified all eight AI-generated sentences.

Survey Data

Question – Did you find it more difficult to detect human-generated text or AI-generated text?

Option	Number of Participants	Percentage (%)
Human-generated text	14	64
AI-generated text	8	36

- 64% of participants found it more difficult to detect human-generated text.
- 36% of participants found it more difficult to detect AI-generated text.

Question – On a scale of very easy to very difficult, how hard was it to detect human-generated text?

Option	Number of Participants	Percentage (%)
Very easy	0	0
Easy	3	14
Neutral	5	23
Difficult	13	59
Very difficult	1	4

- 0% of participants found it very easy to detect human-generated text.
- 14% of participants found it easy to detect human-generated text.
- 23% of participants found it neutrally easy/difficult to detect human-generated text.
- 59% of participants found it difficult to detect human-generated text.
- 4% of participants found it very difficult to detect human-generated text.

Question – On a scale of very easy to very difficult, how hard was it to detect AI-generated text?

Option	Number of Participants	Percentage (%)
Very easy	0	0
Easy	7	32
Neutral	7	32
Difficult	8	36
Very difficult	0	0

- 0% of participants found it very easy to detect AI-generated text.
- 32% of participants found it easy to detect AI-generated text.
- 32% of participants found it neutrally easy/difficult to detect AI-generated text.
- 36% of participants found it difficult to detect AI-generated text.
- 0% of participants found it very difficult to detect AI-generated text.

Question – How many times did you read paragraph 1?

Option	Number of Participants	Percentage (%)
Once	1	4
Twice	21	96

- 4% of participants read paragraph 1 once.
- 96% of participants read paragraph 1 twice.

Question – How many times did you read paragraph 2?

Option	Number of Participants	Percentage (%)
Once	5	23
Twice	17	77

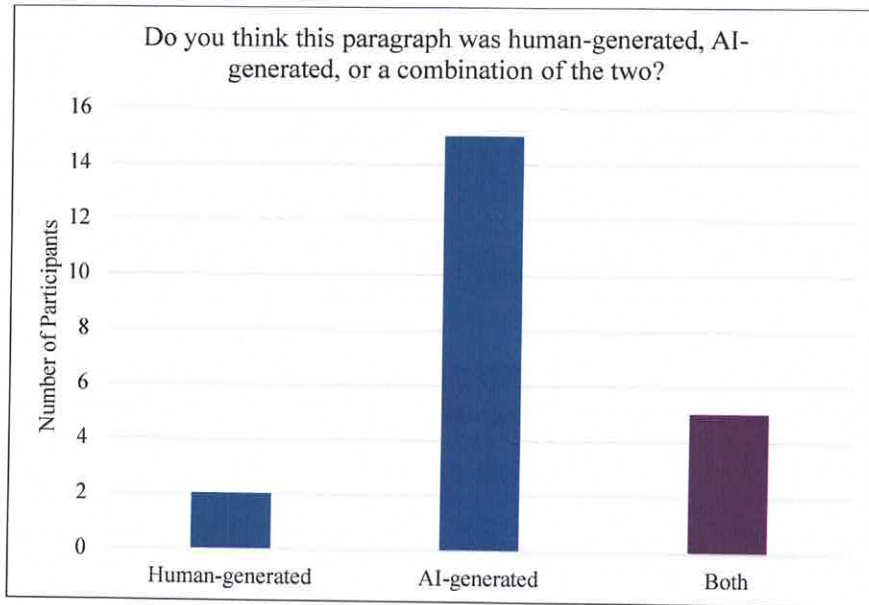
- 23% of participants read paragraph 2 once.
- 77% of participants read paragraph 2 twice.

Question – How many times did you read paragraph 3?

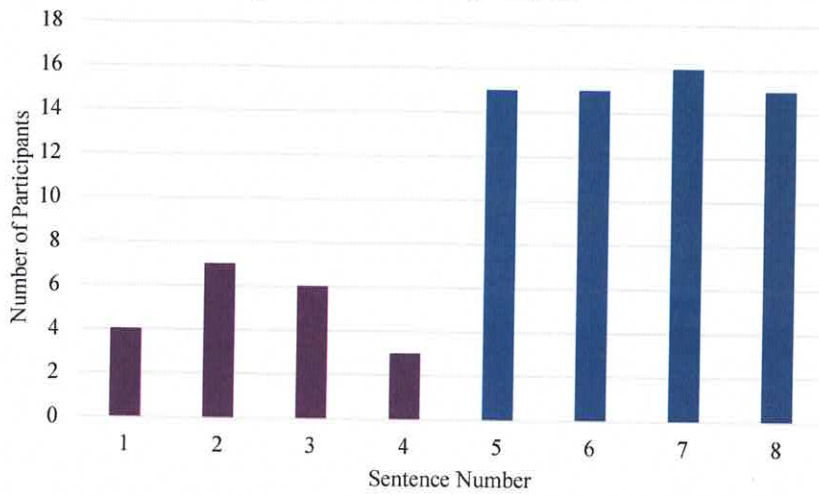
Option	Number of Participants	Percentage (%)
Once	11	50
Twice	11	50

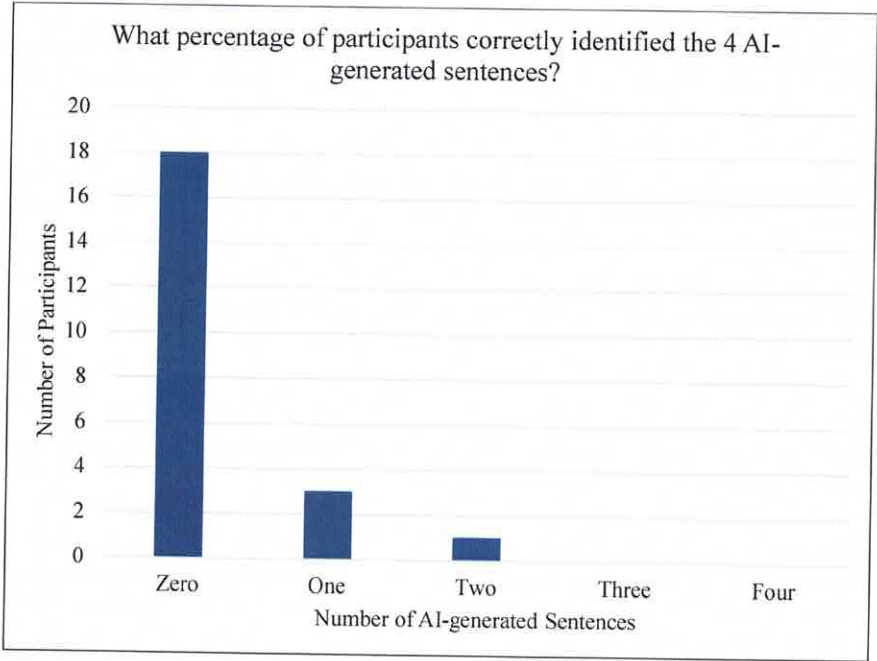
- 50% of participants read paragraph 3 once.
- 50% of participants read paragraph 3 twice.

Paragraph 1

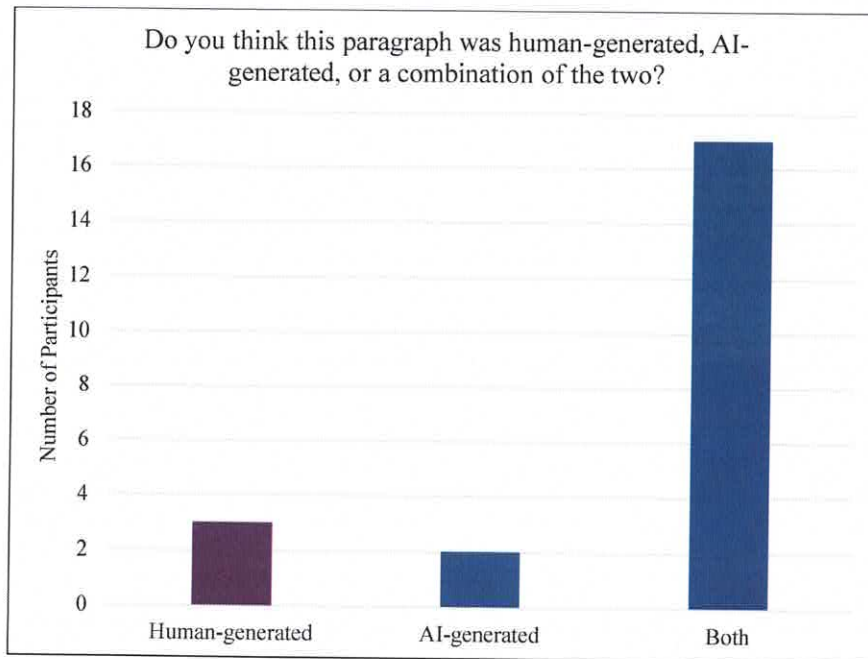


If you answered b or c, please check off the sentences that you think were AI-generated.

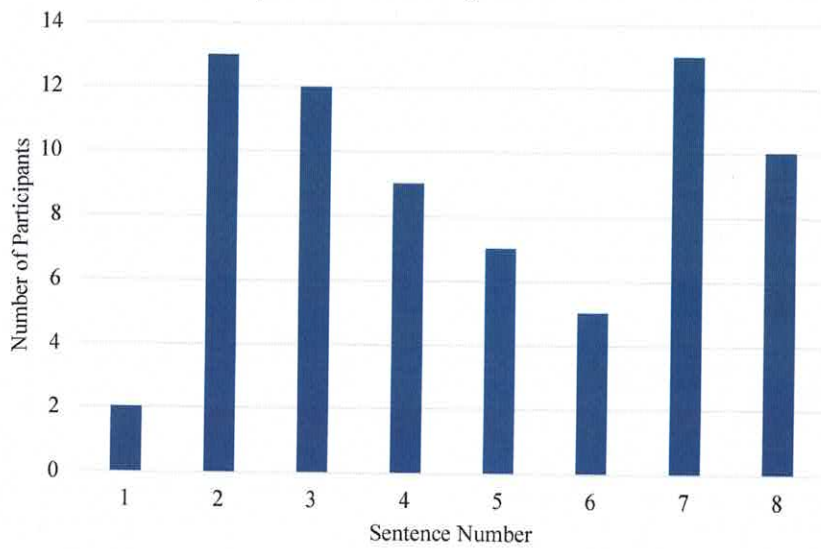




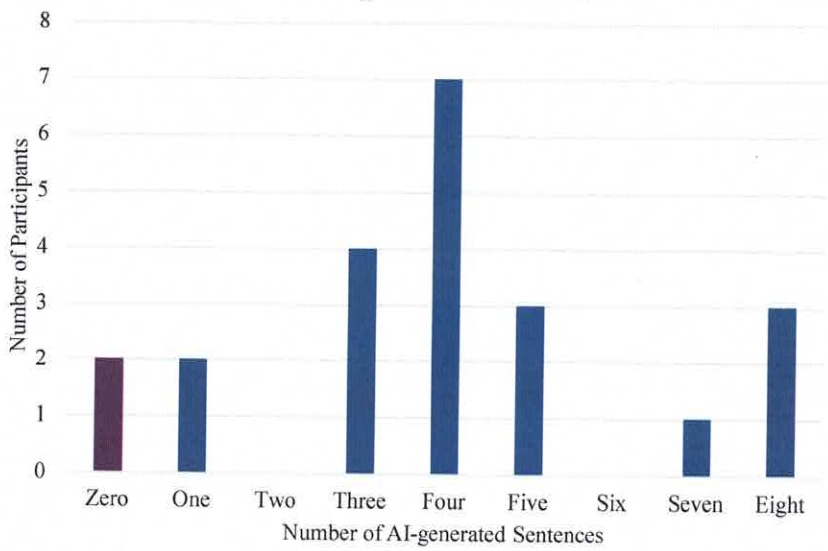
Paragraph 2



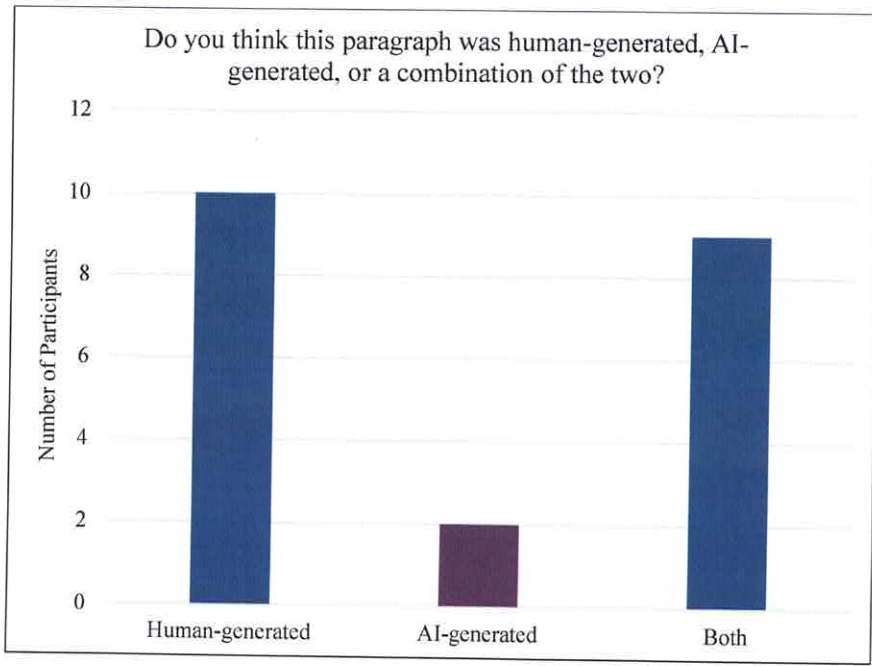
If you answered b or c, please check off the sentences that you think were AI-generated.



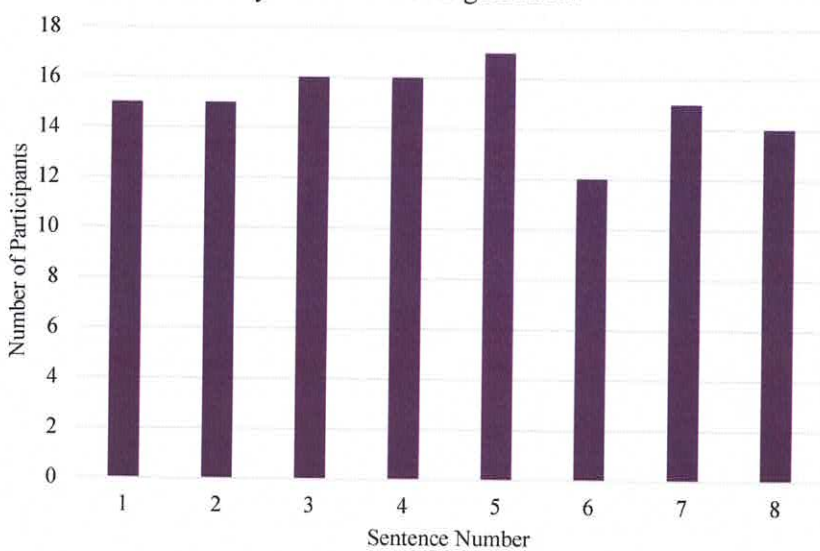
What percentage of participants correctly identified that there were 0 AI-generated sentences?

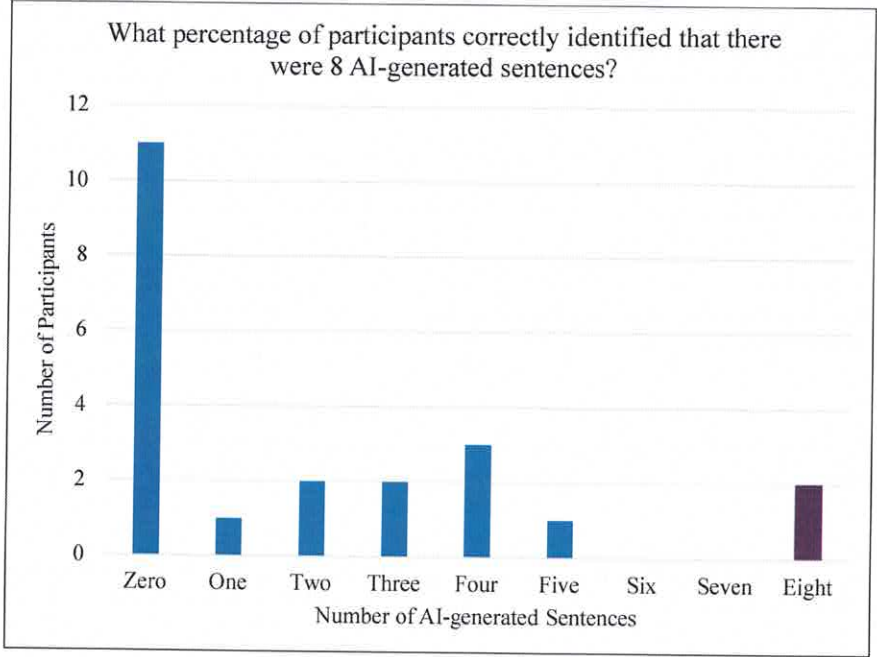


Paragraph 3



If you answered b or c, please check off the sentences that you think were AI-generated.





Survey Data

