Science Fair Logbook
2025
Gobind Sarvar School
Calgary, Alberta, Canada

Grade:8A
Name of the Student:Ravreet and Ravneet

Dec 10	We picked our topic and started our research." AI Vs Human Written Can Teachers Tell Who Really Wrote This"?
Dec 11	Today we planned out what experiment we want to conduct and whether we want to use a letter to test this or essay
Dec 12	We finalized our topic by the head science fair teacher Ms Fauzia and got a couple suggestions such as we should do a trained AI not a normal AI
Dec 13	We started playing around with Chat Gpt and started seeing how it changes tones and shows its works and how it humanizes things.
Dec 14	We thought of the topic of our essay. We had two choices: power of friendship and Mom The Heart Of Our Home.
Dec 15	We decided on Mom The Heart Of My Home as it would be more touching and would be better to test out the trained AI.
Dec 16	Today we printed out our Trained AI written essay and labeled it as essay B.
Dec 17	Today we started constructing the student written essay as we wanted it to be good and we wanted to give it the same amount of time as we did training the AI.
Dec 18	We worked on the human written essay today as well.
Dec 19	Today we also worked on a human written essay.
Jan 6	Today was the first day after the break. We have finished all the slides in our slideshow just have the trials of our experiment left.
Jan 7	We printed out the human written essay today and labeled it as Essay A
Jan 8	We found 5 teachers as our trial teachers Ms.Fauzia,Ms.Roberta and Mr.Lee,Ms.Tahera,Dr.Kaur.
Jan 10	We uploaded Mr.Lee's trial to our slideshow.
Jan 12	Today all we did was work on our slide show and add a slide that talks about how chat gpt works.
Jan 17	We asked ms Roberta to read our essay and make her predictions and like Mr.Lee she also guessed it wrong she thought that essay b was written by us and our hypothesis was proven wrong because majority teachers thought that the Chat Gpt written essay was written by us.Ms Robertas key points as in why Essay B is written by us is because "Essay B is human because it shows more specific moments.It seem more caring.talks about kindness a lot,which is a very common topic at school.Essay A seems more generated and has more specific

	punctuation.We also got our last volunteer Ms.Fauzia to read over and she was the only one that guessed it right she said that A was human written because "Wording(Selection Of Word), error free punctuation not 100% touched the heart.Specific example in terms of food as it said eggs and most students on this school don't eat eggs as its a vegetarian school since it based around sikhi B is AI"
Jan 20	We submitted our ppt and logbook draft.
Jan 21	We updated our background information and improved and fitted it into 2 slides instead of 4
Jan 22	Ms.Fauzia said that the project would be more accurate if you review two more teachers she said to review Ms.Tahera and Dr.Kaur
Jan 23	We asked them and they both looked over them.Ms.Tahera said that "I think B is human written as I felt it came from the heart.Words were more with feeling attached.However the A was precise and formed and it was dictated". .Dr.Kaur said that "Essay B said my mom is my best friend which touched my heart although Essay A has moments as well that touched my heart but I think that one line in Essay B specifically makes it human written".
Jan 29	We entered regionals and started fixing our project and were waiting for feedback from the teacher.
Feb 10	We got our feedback and we decided to do 2 ai vs human and chase two rival AI , chatGPT and deepseek
March 1	We started all of our deepseek research and picked 5 highschool teachers that teach us to assess the essays.
March 7	We started our trials and finishes 3 out of 5 teachers Teacher 1 The Social Studies teacher said ESSAY B is written by a human and Essay A and Essay C is AI.His reasoning was Essay C's logic seemed AI generated,there is a specific flow to the thoughts and every claim is fully supported.The had the same reasoning to ESSAY A. ESSAY B was human. He thought had a different flow and some open thoughts/sentences.However,grammar was a little advanced but seemed grade 8 level. Teacher 2 is our science teacher. She also teaches kids from online schools and

| | she said she has experienced kids using AI for their homework and assignments. Teacher 2 said essay A is written by deep seek because of the punctuation. She also started the words where more advanced for grade 8. She thought essay Cwas chatgpt because the introduction had a quote and the overall flow of the essay. She also said essay B also had advanced vocabulary. Teacher 2 said that essay B is written by us because of the simple wording and easy language used. She said it sounded more like a human essay and touched her heart. Teacher 2 was completely wrong with all 3 essays.

Teacher 3 is our LA teacher. She said that essay A is written by us because of the emotions and handwriting style. She also stated that vocabulary sounded like a grade 8 student. The concluding paragraph also gave her a hint. Teacher 2 guessed this right. We wrote essay A. She said essay B is chat gpt because of the length of the text and the vocabulary used. Teacher 3 said that essay C is deep seek because of the split up paragraphs and the length compared to essay B is shorter which gave her a hint. This however is incorrect. Teacher 3 got an AI programmed essay mixed up.

This the information we got |
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| **March 17** | We did the last two trials and touched up our whole slideshow.
Teacher 4 Our math teacher has said that Essay C is human written because of the lines "also my best friend , my guide", "they make everything feel okay again", "i love the way she takes care of everything". "When i grow up,I want to be as wise and loving as she is".He thought Essay A was ChatGpt because some lines such as "IN CONCLUSION" which to him doesn't seem like should be included in a essay about your mother and he said th essay seems a bit cold and detached/removed like it has no emotions.He thinks Essay B is by DEEPSEEK which is correct he thinks this because the essay has a mechanical touch to it and all the grammar is correct.

Teacher 5 our Gurmukhi teacher has predicted that Essay B was human written as it seems more loving more caring the tone is more loving and because lines such as "She has faced countless obstacles in her life but she never lets them define her.She thinks essay C was ChatGpt which is correct.She thought this because all the other essays mostly have memories and this one doesn't.Lastly she think Essay A is written by DEEPSEEK as its not 100% heartless and has memories but is very short,and has very few grammar errors. |

	Then we handed it in on the CYSF website to get approved.