**Level 1 Eliza**

1. Research the “ELIZA Computer Therapist Program”. Summarize your answers to the following:
   1. What does the program do?

Eliza imitates a therapist who would ask open-ended questions and even respond with follow-ups.

* 1. When and why was the program created?

Eliza was known to be fully created in 1966. But it took computer programmers 2 years to give Eliza’s full form. It was created to trick users into believing that they were having a conversation with a real human.

* 1. How does the program work?

It assigns a value to each word of a sentence a user inputs and uses the value to reorder the words in the form of a question.

1. Use an on-line version of the ELIZA program to see what it is like.
   1. Open the URL : <http://psych.fullerton.edu/mbirnbaum/psych101/Eliza.htm>
   2. Begin by talking about your feelings (just like if you were talking to a guidance councillor).
   3. After a while, try to trick the program.
2. In what ways did the program seem like you were talking to a real person? What was a strategy used by the program to keep the discussion going?

When I said my feelings to Eliza, the program asks me if I came to the Eliza because of my current feelings. Also I repeated the same sentences in a row, Eliza will ask me why did repeat myself. Eliza keeps on talking even if the user does not to be asked anymore question.

1. In what ways could you tell that it was not a real person? What were some of the weaknesses of the program?

I could tell that Eliza was not a real person when the AI kept on turning my answer into a question or when I would tell her something, Eliza will tell us that she does not understand us. Eliza can recognise most of the words used. The AI cannot hold a long conversation.

1. If you had your friend talk to ELIZA but did not tell them it was a program, how long do you think it would take for them to figure it out? Explain your answer.

I think it would them like 2 minutes to figure out depending on the responses or questions they are asking Eliza. If they were to talk about life then the conversation makes senses vs if your were task it specific questions like what is your favourite colour? It would not provide an specific response.

**Level 2 Turing Test**

1. Research the “Turing Test”. Summarize your answers to the following:
   1. What is the Turing Test?

A test for intelligence in a computer, requiring that a human being should be unable to distinguish the machine from another human being by using the replies to questions put to both.

* 1. Who was Alan Turing?

An English mathematician, computer scientist, logician, cryptanalyst, philosopher and theoretical biologist.

* 1. How does the Turning Test work?

The original Turing Test, also referred to as the Imitation Game, requires three terminals -- each of which is physically separated from the other two. One terminal is operated by a computer, while the other two are operated by humans.

During the test, one of the humans functions as the questioner, while the second human and the computer function as respondents. The questioner interrogates the respondents within a certain subject area, using a specified format and context. After a preset length of time or number of questions, the questioner is then asked to decide which respondent was human and which was a computer.

* 1. How is the Turing Test different from other Artificial Intelligence tests?

1. Visit the Ted Ed website to learn more about the Turing Test.
   1. Watch the video at: <https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler>
   2. Complete the on-line test at: <https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler#review>
2. Has any computer AI passed the Turing Test? Research this question and report on your results.  
   No computer AI has passed the Turing Test. Although two well-known computer AI which is Eliza and Parry have claimed to have passed the test. In June 2014, a computer AI called Eugene Goostman which simulates a 13-year-old Ukrainian boy
3. Do you think that you have ever been fooled by an on-line computer AI program? Explain your answer.

If we are talking about chatbots, then I do not think that I have ever been fooled by them. That is probably because when I found those chatbots, it said that it was an AI program. However, if we were talking about AI programs that control a social media account, then I probably have been fooled multiple times. That is because it would be very random if I ever were to find them and also there is nothing that says that this social media account is controlled by a human.

**Level 3 Article reviews**

Pick any one out of the following two (2) “Social Media Bot” articles to read and review. Answer the questions that are specific to each article.

Article 1: Social Media Bots

Read the following article:

<https://www.questia.com/magazine/1G1-530914703/social-media-bots-how-they-spread-misinformation>

1. How much internet traffic is estimated to be produced by AI bots?
2. What are some strategies used by bots to appear more human?
3. How many social media accounts are estimated to be AI bots?
4. How easy is it for a user to detect that they have been “friended” buy a social media AI bot?

Article 2: Social Media Bots

Read the following article:

<https://www.usnews.com/news/healthiest-communities/articles/2018-07-24/how-social-media-bots-could-compromise-public-health>

1. How many social media accounts are estimated to be AI bots?

10 million social media accounts are estimated to be AI bots.

1. What is the purpose/objective of these AI bots?

AI bots are used to manipulate election votes. They can be used to spread misleading or blatantly false information with the intent of influencing how people think or act, and they're relatively simple to make – or to buy, for those simply looking to inflate their follower counts.

1. How could a bot be used to increase the number of people vaping or smoking?

The AIs post hashtags about smoking cessation and e-cigarettes in the same tweet. They push vaping as a safe alternative to traditional tobacco cigarettes despite the unknown long-term health effects of e-cigarettes. So this how a bot is increasing the number of people vaping or smoking.

1. How could a bot be used to increase the public concern about getting vaccinated?

A bot could be used to increase the public concern about getting vaccinated by commenting on posts that are related to this topic and this comment would possibly go viral.

1. What is a “sockpuppet”?

Sockpuppet are fake or deceptive accounts managed by real people who post provocatively to anger and distract others. The posts could be what they seem at face value: comments from real people who oppose vaccinations.

Pick any one out of the following two (2) “Automated Journalism” articles to read and review. Answer the questions that are specific to each article.

Article 3: Automated Journalism

Read the following article:

<https://www.bbc.com/news/business-42858174>

1. What are some of the topics of the articles produced by the robo-journalists owned by the Press Association (PA)? How long and how detailed are these articles?
2. “At this stage” what are the limitations of robo-journalists? What jobs do human journalists do that cannot yet be done by robo-journalists?
3. What happened when the LA Times used a robo-journalist to report on an earthquake?
4. What are some of the “easier” tasks that robo-journalists are used to produce articles for?
5. Do you think this article was written by a robo-journalist? Explain your answer by giving examples of both why and why not.

Article 4: Automated Journalism

Read the following article:

<https://digiday.com/media/washington-posts-robot-reporter-published-500-articles-last-year/>

1. What is the name of the Washington Post’s robo-journalist and what was its first assignment?

The name of the Washington Post’s robo journalist is Heliograf and its first assignment was the election in 2012.

1. How can robo-reporting expand the audience for newspapers?

In its first year, the Post has produced around 850 articles using Heliograf. That included 500 articles around the election that generated more than 500,000 clicks. For the 2012 election, for example, the Post did just 15 percent of what it generated in 2016.

1. How can robo-reporting help human journalists?

It’s freed up 20 percent of reporters’ time spent covering corporate earnings and that AI is also moving the needle on accuracy.

1. Are smaller news organizations using robo-reporting? What are the benefits to smaller organizations?

Smaller new organizations like local football coverage believe that using robo-reporting can increase a news outlet’s reach in a meaningful way. Heliograf can be used to digest data like standardized test scores and crime stats. The benefits are that Heliograf gives reporters to do other work and many engagements, ad revenues and subscriptions can be attributed to those robo-reported stories.

1. Do you think this article was written by a robo-reporter? Explain your answer by giving examples of both why and why not.

This article may have been written by a robo-reporter or not. It may be written by a robo-reporter because, in the article, it was talking about how Heliograf has written about 850 news article in its first year and it writes with a lot of accuracy grammatically. It may not be written by a robo-reporter because the name of the writer of the article seems to be human and the flow of the article is very smooth which shows that a human who is experienced in writing a lot and reads a lot of books, can write an article with such a good flow.

**Level 4 Will Artificial Intelligence Take My Job (SOP)**

To prepare for the final summative you should reflect on how artificial intelligence may impact the future job market. (i.e. The jobs and careers that will be available when you graduate.)

Write ***two*** Supported Opinion Paragraphs for ***two*** job topics as follows:

1. Select two topics from the list of jobs below. If you have an idea for another job please clear it with Mr. Nestor before your proceed.
2. Write a Supported Opinion Paragraph for each job topic
   1. The question to be answered is “Will Artificial Intelligence Take My Job”
   2. Some themes to consider are:
      1. Describe your job as it currently exists (or as it is traditionally). Focus on details that could be automated.
      2. Provide some examples of how your job can be (or has been) changed by computer technology in general.
      3. Provide some examples of how your job can be (or has been) changed by artificial intelligence specifically.
      4. Describe your job as it will exist in the future as it changes due to computer technology.
      5. What education will be required to do this job more effectively
3. Read the following articles to get some ideas about what you should include in your SOP.

<https://www.forbes.com/sites/forbestechcouncil/2018/02/26/artificial-intelligence-will-take-your-job-what-you-can-do-today-to-protect-it-tomorrow/#430f57bf4f27>

<https://www.forbes.com/sites/theyec/2018/07/06/do-you-fear-artificial-intelligence-will-take-your-job/#7fb127a611aa>

1. Guidelines for writing a supported opinion paragraph (SOP)

* <http://schools.peelschools.org/sec/fletchersmeadow/studentlife/OSSLTprep/Documents/Sample_%20Writing%20a%20Supported%20opinion%20paragraph.pdf>

**Job Topic Suggestions:**

|  |  |  |
| --- | --- | --- |
| Truck Driver | Taxi Driver | Delivery Person |
| Store Checkout Clerk | Restaurant Cook / Waiter | Retail Sales Person |
| Real Estate Agent | Financial Advisor | Bank Teller |
| Family Doctor | Medical Specialist / Surgeon | Fitness Instructor |
| Artist | TV / Radio Personality | Actor |
|  |  |  |

AI has evolved for so long and now can be used for many purposes. It can even perform some of the jobs that humans are currently occupying. If my job was being an actor, I believe that AI will not be able to take my job because they cannot express any emotion, they would most likely have a monotone voice and their movements might not look human-like. First, AI can express any emotions because they were not programmed to do so and they do not know how they should feel in different situations. Secondly, an AI would most likely have a monotone voice because they do not know that they might currently be in situations where they must not have a monotone voice as it might make things difficult around themselves. Lastly, an AI’s movements might not look human-like because the body that will be created for an AI would be very stiff and too balanced which looks very different from human movement. Therefore, an AI will not be able to take the job of an actor as they cannot express any emotion, they would most likely have a monotone voice and their movements might not look human-like.

AI has evolved for so long and now can be used for many purposes. It can even perform some of the jobs that humans are currently occupying. If my job was being a fitness instructor, I believe that AI will not be able to take my job because they might achieve movements that we as humans cannot achieve, they will not completely know our limits when training us and they would not have the same body structure as that of a fitness instructor. First, an AI might achieve movements that we as humans cannot achieve because the body structured for them might be built with no limits to their movements to be good for this job and the human body has limits. Secondly, AI will not completely know our limits when training with us. Although they rely on statistics, statistics might not say the complete truth as the limits of humans differ from each other depending on the way they eat, their environment, how long they have been training. So the movements that they would encourage humans to do, might injure the latter. Lastly, AI would not have the same body structure as that of a fitness instructor as they have not experienced the same training for building their body structure. This fact could actually discourage some people or make people believe that they can make their body become the same way which is most likely impossible. Therefore an AI will not be able to take my job because they might achieve movements that we as humans cannot achieve, they will not completely know our limits when training us and they would not have the same body structure as that of a fitness instructor.