**Level 1 Eliza**

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

ELIZA Computer Therapist Program is a program in which it responds to any message that you type in it. It shows the communications between man and machine in which surprised many people. The program is made to reflect those answers as questions that the user then has to elaborate on to make it a never ending discussion.

* 1. When and why was the program created?

The program was created from 1964 to 1966 at the MIT Artificial Intelligence Laboratory by Joseph Weizenbaum which is created to demonstrate the superficiality of communication between human and machines. This bot became one of the first few chatterbots.

* 1. How does the program work?

Eliza is simulated conversation by using a “Pattern matching” and substitution methodology that gave users an illusion of understanding what the part of the program is.

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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?

She sometimes have full fledged responses like a normal human being. A way to keep the discussion going is to provide small talk in order to get a well coordinated conversation. In order to begin a fully fledged conversation, you must say hello only and nothing else. Then ask on what you want to discuss. You have to be very specific and respond normally in order to have a proper and fledged out discussion.

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

I can easily tell its not a real person due to the odd responses of “tell me more” and many other phrases. For example, if you make one random discussion, she will act confused or tell you to elaborate over and over again. Due to this, Eliza shows many signs of weakness due to its incapability of having a proper response like a human. Furthermore, it shows that Eliza does not have any other response for the topic that the individual will be talking about.

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 believe that it will only take them around 30 seconds to a minute to realize that it is not a human due to the poor responses with the AI. If you ask unusual questions towards the AI she will try dodging your questions and answers or try to make you elaborate on them over and over again.

**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?

Alan Turing was a British scientist and a pioneer in computer science. During the Second World war, he developed a machine that helped break the German Enigma code. He also laid the groundwork for modern computing and theorized about artificial intelligence.

* 1. How does the Turning Test work?

A Turing test is a test performed to determine a machine’s ability to exhibit intelligent behavior. The basic concept behind the test is that if a human judge is engaged in a natural language conversation with a computer where he cannot reliably distinguish machine from human, the machine passes the test. Responses from both participants in the conversation are received in the form of a text-only channel. This test was introduced by Alan Turing in 1950.

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

The Turing Test is different from other Artificial Intelligence tests as it tests that it can behave like a normal human being than an artificial intelligence bot.

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.

One Computer in 2014 passes the first Turing test for the first time ever. The program was called Eugene Goostman, which simulated a 13-year-old Ukrainian boy in which it passed the Turing test.

1. Do you think that you have ever been fooled by an on-line computer AI program? Explain your answer.

I have not been fooled by a computer AI yet however I am sure that there will be an AI that can be convincing enough to become a human. As of right now, majority of the AI seem very obvious to me as they cannot elaborate and use the same responses over and over again which makes it easy to tell its not a human being.

**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?

The Imperva Incapsula security company’s Bot Traffic report of 2016 estimates that 30% of its internet traffic is produced by malicious bots.

1. What are some strategies used by bots to appear more human?

The bots can collect information by surfing through the internet for many specific keywords. Because of this, they can then be programmed to use emoji’s in their posts and be active at normal times when a normal human being is usually on the internet. They also limit the amount of information they share and become increasingly sophisticated which makes it difficult to distinguish a bot-generated internet persona from a live human.

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

Twitter revealed in a Securities and Exchange Commission which filed that approximately 8.5% of its users are bots in social media during 2014. At 2017, the number may have increased to as much as 15%.

1. How easy is it for a user to detect that they have been “friended” by a social media AI bot?

Many users are unaware that they are interacting with a bot which means they can easily be supplied with false information. Due to this, it’s very likely that an individual can accept the friends request from a bot without even checking the actual person’s identity. According to research that was published in the Communications of the Association for Computing Machinery in 2016, 20% of authentic Facebook users accept requests indiscriminately. This means that people with a large network of friends will most likely accept requests from many people that they don’t know. This makes it significantly easier for the bots to infiltrate the network of social media users.

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?
2. What is the purpose / objective of these AI bots?
3. How could a bot be used to increase the number of people vaping or smoking?
4. How could a bot be used to increase the public concern about getting vaccinated?
5. What is a “sockpuppet”

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. Its used to spit out around 300 short reports and alerts on the Rio Olympics. But then improved to be used to cover congressional and gubernatorial races on Election Day and D.C.

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

The Heliograf can produce around 850 articles. 500 of these articles around the election generated more than 500,000 clicks. Because of the ability to produce many articles in a short period of time, it can draw more audiences with the number of post and can interest a vast variety of audiences.

1. How can robo-reporting help human journalists?

Robots can help reporters as it can enable journalists to do more high quality work and not take their jobs. The AP estimated that it’s freed up 20 percent of reporters’ time spent covering corporate earnings and that AI is also moving the needle on the accuracy. Furthermore, reports can use Heliograf to alert the newsroom when election results started trending in an unexpected direction, giving reporters lead time to thoroughly cover the entire news.

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

Smaller news organizations like local news can increase a news outlet’s reach in a meaningful way. For some local communities however, its unclear how the approach will be due to the digital news model falling short. However, the Heliograf can be used to digest data like standardized test scores and crime stats; covering a zoning board meeting is another matter. Lastly, AI isn’t really being used beyond big news organizations.

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

I believe that this article was not written by a robo-reporter. I believe this as most of the article seems to be driven from personal voice than just statistical data and alerts. Due to this, I believe that this article was created by a real human being. Another reason why I believe that this article was made by a human being was that it uses sophisticated and complicated wording that an AI bot may not understand. Therefore, I believe that this article was written by a human being and not a robo-reporter.

**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

**Taxi Driver:** AI is one of the greatest achievements which was ever accomplished by human beings. AI was improved for several years in order to make the lives for many individuals easier. However, AI can negatively affect many people due to its advancements in technology which can lead them to excel in many things beyond human capabilities. A taxi driver on the other hand, is a job in which includes little to no AI. The job mostly requires a person who has general knowledge of the area and can drive to any location. Due to the advancement in artificial intelligence, taxi drivers might be at risk for their jobs. For example, Uber is planning to create self driving cars in the future. Because of decisions like these, taxi companies like Uber and Lyft will be negatively affected due to many drivers most likely getting laid off for AI. This means that taxi drivers will have to fear for their jobs due to machines taking over. The education that is required for this job cannot be improved. This is because if the driver knows general mapping knowledge and how to drive, there will be nothing more to learn. Therefore, taxi drivers will most likely have their job taken away by AI due to many taxi companies turning towards self driving cars than human driving cars.

**Truck Drivers:** Self driving vehicles are becoming an average in todays society. There are many companies producing self driving vehicles so the drivers will not have to worry about focusing on the road. However, this can take over many sorts of jobs which requires a driver. These self driving vehicles can possibly be an improvement in terms of technological advancements within the society but can be devastating to many jobs which these self driving vehicles will be taking over. For example, Elon Musk introduced the self driving trucks in which it can make deliveries without a driver. Innovations to technology can bring many successes to one’s life. However, it can negatively affect someone else for the same job. In this case, truck drivers can be negatively affected by AI like self driving vehicles. Due to the advancements of AI, vehicles can be self driven without the need of a driver. Furthermore, this can then affect truck drivers as their vehicles will no longer have someone behind the wheel. In some cases however, truck drivers can be used to make sure that the self driving truck is going in the right direction to make to reach its destination. Overall, AI may have a negative impact on jobs like truck drivers as their jobs can be taken by self driving vehicles. Therefore, AI has a negative impact on truck drivers.

1. 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 |
|  |  |  |