**Level 1 Eliza**

1. Research the “ELIZA Computer Therapist Program”. Summarize your answers to the following:

a. What does the program do?

The program responds to messages that the user has entered, and then reflects those answers as questions that the user then has to further elaborate on. The program also talks to people about their lives, and communicates with humans to stimulate an average conversation.

b. When and why was the program created?

The program was created in 1964 by the MIT, and the created the program to demonstrate the communication between human and machines, and to attempt to create an AI that could stimulate human conversation.

c. How does the program work?

The program responds to messages that the user has entered, and then reflects those answers as questions that the user then has to further elaborate on.

2. Use an on-line version of the ELIZA program to see what it is like.

a. Open the URL :<http://psych.fullerton.edu/mbirnbaum/psych101/Eliza.htm>

b. Begin by talking about your feelings (just like if you were talking to a guidance councillor).

c. After a while, try to trick the program.

3. 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?

A strategy used by the program, is to pick up cues in what you’re saying to the program, and then use the information to further ask you questions so you think that you’re talking to a real person because they have interest in your life, and how your life is based on what you say.

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

The program tended to repeat itself, and some popular statements are “We were discussing you, not me.”, and “Tell me more…”. Eliza also had no emotion, as all artificial intelligences don’t. She only wants you to keep talking, and she never has any other input.

5. 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 that they would figure it out pretty quickly, because they would ask or steer the conversation in the other direction, and Eliza would do everything in her power to keep it on the friend, also achieving this by repeating herself often.

**Level 2 Turing Test**

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

a. What is the Turing Test?

The Turing test was made by Alan Turing in 1950 and is a test of an AI’s ability to mimic human behaviour until the machine is indistinguishable from a human’s.

b. Who was Alan Turing?

ALan turing is a british scientist and a pioneer in computer science. During World War II, he developed a machine that broke the german enigma code. He laid groundwork for modern computing and theorized about artificial intelligence.

c. How does the Turing Test work?

The turing test pretends to be a woman and tricks the interrogator into making an incorrect evaluation. There are 3 players, and A or B is a computer. If A is the computer, then the computer must trick player C into thinking that B is the other sex. Player B is the real person, and he has to try to make player C make the right decision of his/her gender. If Player C determines wrong, then the computer is determined to be intelligent.

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

The turing test tests to see if human beings can distinguish an AI from a human being, but other tests would test to see if the AI speaks like a human being. AI’s have passed other tests, but no AI has been able to pass the Turing test, for it is a harder test to pass than the other tests.

2. Visit the Ted Ed website to learn more about the Turing Test.

a. Watch the video at:<https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler>

b. Complete the on-line test at:<https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler#review>

3. Has any computer AI passed the Turing Test? Research this question and report on your results.

Currently, no AI has been able to pass the turing test, although Alan Turing predicted that computers in the year 2000 would be able to pass this test easily. Google duplex could pass the test, but it hasn’t been released, not has it been tested on the turing test yet.

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

No, because nobody has ever tested me on seeing if I can tell the difference from an AI or a human. Although nobody has asked me, I find from past experience that AI has been awfully predictable and just doesn’t talk or answer questions like a human being would. AI’s only know certain responses, and would not know how to respond in other situations, or think for themselves.

**Level 3 Article reviews**

Pick any three (3) out of the following four (4) 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?

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”?

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?

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

3. How can robo-reporting help human journalists?

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

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

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

1. Read the following articles to get some ideas about what you should include in your presentation.

<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>

2. Select a job (topic) that you think might not be affected by computer technology and artificial intelligence.

a. A list of job topics is included at the end of this page.

b. Your job topic must be confirmed with Mr. Nestor.

c. Your job topic must be unique in the class.

3. Create a presentation that will inform other students about the following information:

a. Title your presentation “ Will AI Take My Job as a (your job topic)”

b. Describe your job as it currently exists (or as it is traditionally). Focus on details that could be automated.

c. Provide some examples of how your job can be (or has been) changed by computer technology in general.

d. Provide some examples of how your job can be (or has been) changed by artificial intelligence specifically.

e. Describe your job as it will exist in the future as it changes due to computer technology.

f. Explain what education will be required to do this job more effectively.

4. Presentations are due on Wednesday and will be presented Wednesday and Thursday.

a. Presentation to the class should be 5 minutes in length

b. Share your presentation with Mr. Nestor through Google docs.

**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 |
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