

## MCS 210 - Writing Assignment 4

1. This is a reading comprehension writing assignment that will evolve as we read and discuss the book titled “You look like a thing and I love you” by Janelle Shane. I strongly suggest you answer questions as soon as you complete the chapters indicated for each question, rather than waiting to finish the book.
2. Answer the questions in the next page after reading the corresponding book chapters. Your answers must be written in your own words; do not copy from the book. Answers should be clear and organized, not overly verbose but not too simplistic either.
3. Create an Overleaf project named MCS210\_WA4
4. When you have finished writing your revised responses, download your project from Overleaf as a .zip file and submit via Moodle.

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### Questions for Introduction and Chapter 1:

1. What is this book about, and what is the author’s goal in writing this book?
2. What is AI?
3. Choose one of the four signs of AI doom listed in the book. Explain why it creates issues for AI, and describe an example where it prevents an AI from working as desired.

### Questions for Chapters 2 and 3:

4. This book was published in 2019, three years before the release of ChatGPT. Shane writes about the challenges of creating a broad chatbot. Given the existence of ChatGPT, do you think Shane’s arguments remain true? Explain why or why not.
5. What example application of AI did you find most interesting? Briefly explain how it works.
6. Write a short explanation of how neural networks learn.

### Questions for Chapters 4 and 7:

7. What are some reasons that data could have errors or otherwise not be representative of reality?
8. Why are machine learning models prone to racial and gender bias?
9. What are some ways to prevent or reduce racial and gender bias in machine learning models?