**Type Title of Paper in Full**

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**I. Technology Overview**

In this opening paragraph, give the name of technology (include a URL if appropriate).

In about 2–4 sentences, provide a detailed description of what the technology does. Discuss the main application(s) of this technology. Include at least one sentence explaining why this technology is of interest to you. This is an example citation of AI100 (Littman et al., 2022).

**II. AI Foundations of The Technology**

Describe how this technology uses AI by connecting it to the main definition of AI used throughout the semester. Elaborate on the first bullet by tying the technology to AI paradigms and what is/is not AI. These two bullets should be a well-developed paragraph of at least 5 sentences. Describe the AI techniques employed to create your technology. This may require you to discuss the application of classical AI techniques (e.g., tree search, rule-based algorithms, automated planning). In Weeks 7 and 8, we discussed the foundations of machine learning. If your chosen technology incorporates machine learning, then in a well-developed paragraph, connect your selected technology to concepts from these lessons.

**III. Strengths and Limitations**

What does the technology do well? Discuss this and ways the technology could be improved.

Summarize the major risks and benefits of this technology. Address realized and potential risks to society, specific groups, and/or individuals.

**IV. Ethical and Safety Risks**

Choose one risk from section III to discuss in detail. Clearly restate your chosen risk in the first sentence of your first paragraph. In Weeks 1–4, we watched a series of videos on ethics in AI by Dr. Fleishman. Connect this risk to ethical frameworks discussed in these lectures. Discuss the potential perspectives of different stakeholders and individuals that could be impacted. You may choose to reflect on any personal biases as well. Discuss ways to mitigate the risk you selected. Suggest some practical solutions and discuss the ethics of these solutions. Describe the practicalities of enforcing such mitigations, and at what level enforcement could and/or should occur (e.g., the individual, a company, the government).

**V. Improvements**

In this paragraph, suggest ways that the AI technology could be improved. Reflect on the AI techniques employed (e.g. search, planning, probabilistic reasoning, machine learning, etc.). What steps of the AI development process would need to be taken to improve the technology? Could new machine learning techniques be employed?

**VI. Conclusion and Future Direction**

To begin, briefly summarize where the technology you examined, and its current status. Restate the key strengths/limitations/risks/benefits. Describe the next step for improving this technology. You may also address how future improvements will need to be addressed. In your opinion, what is the #1 ethical implication we must be cognizant of as this technology advances?

**References**

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Littman, M. L., Ajunwa, I., Berger, G., Boutilier, C., Currie, M., Doshi-Velez, F., ... & Walsh, T. (2022). Gathering strength, gathering storms: The one hundred year study on artificial intelligence (AI100) 2021 study panel report. *arXiv preprint* *arXiv:2210.15767.*

Your references will be listed alphabetical by **author’s last name**. They will not be indented the same way as the body of your paper. Each reference will have a “hanging indent,” like this paragraph is written. This guide shows how to create different types of reference entries: <https://national.libguides.com/apa_7th/reference>. (Delete this instruction in your submission).