

École Polytechnique Fédérale de Lausanne

Biased Al Systems About the reinforcement of injust discrimination.

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Final Paper

HUM-392: The Ethics and Law of Artificial Intelligence

Abstract

The

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Introduction

The introduction is a longer writeup that gently eases the reader into your thesis [1]. Use the first paragraph to discuss the setting. In the second paragraph you can introduce the main challenge that you see. The third paragraph lists why related work is insufficient. The fourth and fifth paragraphs discuss your approach and why it is needed. The sixth paragraph will introduce your thesis statement. Think how you can distill the essence of your thesis into a single sentence. The seventh paragraph will highlight some of your results The eights paragraph discusses your core contribution.

Background

The background section introduces the necessary background to understand your work. This is not necessarily related work but technologies and dependencies that must be resolved to understand your design and implementation.

Design

Introduce and discuss the design decisions that you made during this project. Highlight why individual decisions are important and/or necessary. Discuss how the design fits together.

Implementation

The implementation covers some of the implementation details of your project. This is not intended to be a low level description of every line of code that you wrote but covers the implementation aspects of the projects.

Evaluation

In the evaluation you convince the reader that your design works as intended. Describe the evaluation setup, the designed experiments, and how the experiments showcase the individual points you want to prove.

Related Work

The related work section covers closely related work. Here you can highlight the related work, how it solved the problem, and why it solved a different problem. Do not play down the importance of related work, all of these systems have been published and evaluated! Say what is different and how you overcome some of the weaknesses of related work by discussing the trade-offs. Stay positive!

Conclusion

In the conclusion you repeat the main result and finalize the discussion of your project. Mention the core results and why as well as how your system advances the status quo.

Bibliography

[1] Sushant Dinesh, Nathan Burow, Dongyan Xu, and Mathias Payer. "RetroWrite: Statically Instrumenting COTS Binaries for Fuzzing and Sanitization". In: *IEEE International Symposium on Security and Privacy*. 2020.