




NAME: Potential Impact Assessment 

DATE: May 16, 2026 6:53 PM


DESCRIPTION OF TECHNOLOGY
Genuine Challenge 2: Chess opening predictor

HUMAN VALUES 


This technology might affect the identity of the users, when the user would have a different idea about their (in)balanced openings and kind of gets put in place due to this technology, which might offend the user in a way.

TRANSPARENCY 


Making money from this technology is not one of the goals, hence no business model needs to be disclosed. How the technology works and what will be done with the users data will be disclosed in an user manual which will be publicly accessible

IMPACT ON SOCIETY 


The projects goal is to reduce the time players have to spend for their preparation on a specified player. Nowadays people replay tens if not hundreds of games in preparation for the match with their opponent, this technology will change that by analyzing your opponents games for you to predict the opening they will play against you!

STAKEHOLDERS 


- Chess players (might use this technology to improve their own gameplay or prepare for an opponent)
- Chess trainers (might use this technology to improve their students gameplay)
- Chess engines (might use this technology to improve their strength)

SUSTAINABILITY 


The direct energy use of this technology takes place when training the model with the dataset. The indirect energy use for this project will be the hosting of the website where this model will be hosted. When delivering this project the website will most likely be hosted on firebase, which is not optimal, so after the delivery the website will be run locally when necessary.

HATEFUL AND CRIMINAL ACTORS 


There is only an extreme scenario where this technology could be used to avoid the consequences of breaking the law, which is when a player is cheating during the opening and lets his defence be the fact that this technology predicted this opening, hence no cheating was involved. However, we can't be held responsible when cheating takes place in an over the board game, because the onsite referee is responsible for catching this kind of behaviour in the act.

DATA 


Since this data is collected from online games, we can't guarantee that no cheating has taken place. We also can't collect any information about the settings in which these games were played (were the player under the influence of anything for example?).

FUTURE 

This technology might be expanded with the use of chess engines to evaluate the predicted openings, giving the user a better understanding for what to play to achieve an advantages position.

PRIVACY 

This technology does not directly register personal data, however it does register peoples usernames, which might be traced back to the player if they have decided to link their personal information to their chess account.

INCLUSIVITY 


Bias has been reduced due to the fact that the collected data consist of the last x amount of player games from the website (API) of lichess. However the dataset itself does contain bias ofcourse, since it was acquired from only one source, whilst there are a lot of other source.

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HUMAN VALUES



How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?...

TRANSPARENCY



Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their...

IMPACT ON SOCIETY



What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine...

STAKEHOLDERS



Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by...

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

...

SUSTAINABILITY



In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS



In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder...)

DATA



Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;...

FUTURE



What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY



Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like...

INCLUSIVITY



Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....

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