QUICKSCAN - CANVAS

AI Chess Engine

NAME: AI Chess Engine DATE: July 4, 2025 5:09 PM DESCRIPTION OF TECHNOLOGY A chess engine (bot) that can recommend chess moves given the current chess board state, using ML/DL algorithms.	HUMAN VALUES The technology doesn't affect the identity of its users. It is account-less and does not distinguish between users.	TRANSPARENCY Stakeholders are well familiar with the concept and business model, and they have been presented with a comprehensive project plan.
IMPACT ON SOCIETY The project does not aim to solve a particular real-world problem per se. It's purpose is primarily self-educational for its creator(s). It is a practical project that will allow the creator(s) to study the domain of chess AI, and apply several deep learning algorithms in the process	 STAKEHOLDERS Kiril K. (creator) Iman Mossavat (teacher, project endorser) Nico Kuijpers (teacher, project endorser) Qin Zhao (tutor, project endorser) 	SUSTAINABILITY The energy cost for training the models can be significant if advanced hardware will be used - e.g. project PC or supercomputers. After training, inference won't consume much energy.
HATEFUL AND CRIMINAL ACTORS The technology cannot be used to break the law per se. It can, however, be misused by breaching the community rules of certain online chess playing platforms (lichess, chess.com), during its testing.	DATA In the set of the	FUTURE Qiven the educational purpose of the project, it might be given as an example to future students of the AI advanced course.
PRIVACY (i) The technology does not register personal data and is trained using open-source, publicly available data.	INCLUSIVITY The technology might have built-in bias in performing better in certain chess positions, or with a set of chess pieces (e.g. performs better with white than black).	FIND US ON WWW.TICT.IO THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO Fontys EXAMPLE 10 EXAMPLE 10 EXAMP

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BY

University of Applied Sciences

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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 appealed by the first of the technology does not collect personal data, but can be used to assemble personal data. If the technology collects appealed by the first of the technology does not collect personal data, but can be used to assemble personal data. If the technology collects appealed by the first of the technology does not the technology collects appealed by the technology does not collect personal data, but can be used to assemble personal data. If the technology collects appealed by the technology does not the technology collects appealed by the technology does not the technology collects appealed by the technology does not the technology collects appealed by the technology does not collect personal data, but can be used to assemble personal data. If the technology collects appealed by the technology does not the technology collects appealed by the technology does not technology technology does not technology technology technology does not technology technology tec	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 page? By artical Bo guara of your own biases	FIND US ON WWW.TICT.IO THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO Fontys

case? Be critical. Be aware of your own biases....