




NAME: Informa 

DATE: September 4, 2024 9:50 PM


DESCRIPTION OF TECHNOLOGY
 A data analysis tool, that will reduce costs for pharmacies in Belgium. And try to improve health by predicting a certain path a patient will take.

HUMAN VALUES 

After considering the various nefarious means that this data can be used for We decided to improve our data security and the ways our program can be accessed by the users, so that it is more difficult for bad actors to use our program's data in a way that would benefit them.

TRANSPARENCY 


The technology should not be just a black box for the company that is going to implement it. They should be made aware of how this works, and how this should be used. This includes proper communication in an instruction manual.

IMPACT ON SOCIETY 


The impact of the technology could be both big and relatively small. The goal would be to manage what people use the technology on and set a limit to what the impact could be. This project is supposed to help and not replace anything and by having this as a given people might look at the technology in a different way.

STAKEHOLDERS 


From interviewing one of our stakeholders it became clear there is a lot of information to be gathered that will be helpful in our understanding of this domain that will help us create a tool that will support the pharmacy in the best way possible.

SUSTAINABILITY 


The main issue regarding sustainability in regard to this technology is the energy used for inputting and processing the data. By inputting and processing the data in fixed time intervals as opposed to constantly working with the data will help reduce the energy consumption, thus becoming more environmentally sustainable. Since this is technology is data-driven there is no specific lifespan, meaning that as long as there is relevant data the technology can continue working.

HATEFUL AND CRIMINAL ACTORS 


After considering the various nefarious means that this data can be used for We decided to improve our data security and the ways our program can be accessed by the users so that it is more difficult for bad actors to use our program's data in a way that would benefit them.

DATA 


The dataset is incomplete; this could be improved upon. We should advise the company to have a better data collection system, to gain more benefits from AI systems. For now, this means that we have certain limitations to the system. For half of the time, we don't know when the medicine is purchased. So a sales forecast would be not as accurate as desired. For Health improvement YOB is also inaccurate.

FUTURE 

The ideal conditions, perfect predictions for all the fields of interest. This would provide more trust in the technology. We would have a system where our technology would greatly aid the doctors and patients but still be just a second measure to the real thing. In the worst conditions, a technology not very good at predicting the required data but people still trust it. People can be mislead to use our technology and give it more value than even a doctor or any medical professional. Together with it being unsuccessful at predicting could have...

PRIVACY 

This technology keeps track of the amount of medicine certain patients purchase with the date and sometimes the supply time provided. However, patient names are never used, and instead, a patient token is generated to be able to differentiate between different patients. The only personal information that is kept visible is the gender and the year of birth for the patients. All specific information is not included in order to ensure that the privacy of the users is kept securely and that the patients cannot be identified using the provided...


INCLUSIVITY 

When actually implementing this technology a doctor should be part of the development of the system. The decision on cost-saving should not only be beneficial for the pharmacies but should also take the health of patients into account.

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A data analysis tool, that will reduce costs for pharmacies in Belgium. And try to improve health by predicting a certain path a patient will take.

HUMAN VALUES 

Now that you have thought hard about the impact of your technology on human values, what improvements...

If you think about the impact of this technology on human values and needs. If you think about how this technology affects the identity of the user, the autonomy of the user (can the users make their own decisions?) and the health and well-being of the user. If you think about all that, what improvement would you (want to) make? In the technology?...

TRANSPARENCY 

Now that you have thought hard about the transparency of this technology, what improvements would you like t...

If you think about the communication on the way the technology works and the businessmodel. If you think about the explanation on automatic decisions that are made. If you think about complaint procedures and transparency on possible negative effects. If you think about all that, what would you (want to) improve? In the technology? In context?...

IMPACT ON SOCIETY 

Now that you have thought hard about the impact of this technology on society (by filling out the questions...

If you think about the real problem this technology is going to solve. If you think about the ability of this technology to solve the real problem. If you think about possible negative effects and whether this technology will contribute to a world you want to live in. If you think about all that, what improvements would you make? In technology? In context? In use?...

STAKEHOLDERS 

Now that you have thought hard about all stakeholders, what improvements would you like to make? List them...

If you think about all stakeholders of this technology. If you think about stakeholders that are less obvious. If you think about the way certain stakeholders are affected by this technology and if you want to take them into consideration. If you think about all that, what would you (want to) improve? In the technology? In context? In use?...

SUSTAINABILITY 

Now that you have thought hard about the sustainability of this technology, what improvements would you like t...

If you think about the direct and indirect energy use and the materials that are used in the technology. If you think about the lifespan of the technology and the hidden environmental impact of the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?...

HATEFUL AND CRIMINAL ACTORS 

Now that you have thought hard about how bad actors can impact this technology, what improvements would...

If you think about this technology being used to break the law, or avoid the consequences of breaking the law, or to be used against certain groups, or to attack the truth or to pit certain groups against each other. If you think about all of that, what improvements would you (want to) make? In the technology? In context? In use?...

DATA 

Now that you have thought hard about the impact of data on this technology, what improvements would you...

If you think about the limitations of data. Things like subjectivity, incomplete datasets and so on. If you think about the way new insights are handled. If you think about the sustainability of the collection of data or the data that is collected from the users. If you think about all that, what would you (want to) improve? In the technology? In context?...

FUTURE 

Impact Improvement: Now that you have thought hard about the future impact of the technology, what...

If you think about an utopian and a dystopian scenario. If you think about the way this technology can change the world. If you think about the consequences of a different party buying your technology. If you think about all that, what would you (want to) improve? In the technology? In context? In use? ...

PRIVACY 

Now that you have thought hard about privacy and data protection, what improvements would you like to make?...

If you think about this technology invading someone's privacy or collecting personal data and if you think about the way this technology is compliant with prevailing law and mitigates dataprotection risks and concerns. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?...

INCLUSIVITY 

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to...

If you think about accessibility to this technology. If you think about built in biases or automatic decisions that may be biased. If you think about who is benefitting from this technology and the diversity of the team that creates the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?...

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