

NAME: Crossyn Project

DATE: October 19, 2021 2:25 PM

DESCRIPTION OF TECHNOLOGY

We are creating a project to create trips from datasets that have been collected. During trip creation, trips need to be evaluated based on the need of merging and splitting, after which the trip enrichment process begins.



HUMAN VALUES



The user's driving behavior is being recorded, so that can affect their driving style.

TRANSPARENCY



We do explain, using documents such as an architecture document and the project plan, how the application will function and our business model.

IMPACT ON SOCIETY



We are trying filter and display driving data sets, making clear the driving patterns for insurance purposes. For example, this data can provide proof to insurance claims. It can help dealerships and fleet owners keep track of their vehicles.

STAKEHOLDERS



- Crossyn
- Fontys ICT
- Group 1

SUSTAINABILITY



???

HATEFUL AND CRIMINAL ACTORS



This data can be used for invading someone's privacy (e.g. tracking the location of the user's vehicle).

DATA



We are aware that the data we receive does not fully represent real world situations and could be used maliciously, but with limited data we can not be sure the program isn't biased.

FUTURE



In the future this technology can be extended to help make driving safer, by analyzing the aggregated data. (e.g. restructuring a road that has a unusual number of accidents happen there)

PRIVACY



No, the data is only filtered and it does not contain personal information.

INCLUSIVITY



The technology itself is not biased, but the data we process could be.

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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:

- Can the technology be perceived as stigmatising?
- Does the technology imply or impose a certain belief or world view?...

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.

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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