



**NAME:** UltiStats 

**DATE:** September 5, 2024 8:35 PM


**DESCRIPTION OF TECHNOLOGY**  
Ice hockey is a sport that is evolving drastically around Europe and that is quite visible in the Netherlands too. Currently, there are no statistics for coaches or referees being taken, only for players. Most players also coach or ref so they have certain statistics on their name but no platform exists right now where that data is combined. This is where this platform comes in place - by combining data around a perso...

**HUMAN VALUES** 


The concern is that there are people who can look into the statistics of the person and imply those numbers as the level of that person and see this as something good or bad. This can affect the judgment of for example scouts when it comes to a player's level in hockey or a coach's ability to win games. People base their judgment already on the numbers only.

**TRANSPARENCY** 


There is no tutorial for this technology but there is an index page that it is explained what's the purpose of it, how it might be biased, and how data collection works. This way we are transparent and the user is well informed and warned.

**IMPACT ON SOCIETY** 


When you look at different people in hockey, there are those who fulfill multiple functions (player, coach, and referee). The statistics for that are currently not being combined anywhere. This is really a problem because the full picture of an individual, involved in hockey is not present.

**STAKEHOLDERS** 


- IJshockey Nederland
- NOC\*NSF
- IIHF

**SUSTAINABILITY** 


The only possible improvement is by using servers that are eco-friendly (for example powered by solar or wind energy).

**HATEFUL AND CRIMINAL ACTORS** 


Statistics by itself are flawed from the start, especially when you do not know if they are all the possible ones. this system is also vulnerable to that. A bad actor can use fake statistics by putting wrong information in the system to get up higher in the hockey world without proving it was genuinely done by the person.

**DATA** 


People can make their judgments just based on what they see in the statistics instead of actually looking at the person. If data is not up to date this can also be an issue. The technology takes this into account by showing when was the data last modified and by keeping a full history of all additions, removals, and modifications.

**FUTURE** 

The big goal of this project is to build up a network of statistics in hockey and provide data to be able to improve different aspects based on that. With the growth of the project, the data will also grow and predictive functionalities can be unlocked that can push the sport of ice hockey further in its development.

**PRIVACY** 

The technology does register personal data, as in the function of the person hockey-wise, and the data is linked to that person, be it, for example, goals scored, games won or penalties made. It also collects data about age, height, weight, nationality and date of birth.

**INCLUSIVITY** 

The technology inherits some built-in biases - nationality, age, weight, height, achieved results. These can be used for discrimination. However, the data is already present and the system itself does not discriminate based on it.

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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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