# IMPROVEMENTSCAN - CANVAS    AI tool for predicting MMA matches

**NAME:** AI tool for predicting MMA matches
**DATE:** April 30, 2025 8:22 PM
**DESCRIPTION OF TECHNOLOGY**
With this tool it will be possible to predict the outcome of a fight between two fighters.

## HUMAN VALUES

The technology should ensure transparency, fairness and inclusivity while avoiding deterministic messaging or reinforcing stereotypes, aligning with users' values and empowering them responsibly

## TRANSPARENCY

The improvements that will be taken into account for the transparency of the tool will be to provide clear, user-friendly explanations of how the decisions are made. As well as ensuring all data used in the predictions is throughly documented, including its sources, relevance and limitations. And further trying to detect bias and mitigating it.

## IMPACT ON SOCIETY

I do not want the technology to be public and used by many people. That way the tool can be exploited and used in an inappropriate way.

## STAKEHOLDERS

In order to address the fighter stakeholders it must be conveyed to them why their data is being used and further create a document of how the data is being used and ensure that the data is not going to be distributed. To ensure that the product is not being misused the availability of the product will be made private, thus limiting the possibility of the product falling into the wrong hands.

## SUSTAINABILITY

Using the models for the predictions could lead to a lot of energy consumed. In order to mitigate this the project needs to be very well structured and the models need to be optimized as much as possible. However the project will run locally which leads to less consumption regarding cloud storage.

## HATEFUL AND CRIMINAL ACTORS

Conveying the prediction as transparent as possible. And always force people to read the terms and conditions of the usage of the tool.

Restricted access and the distribution of the technology to verified organizations (e.g., sports organizations, trainers) and not directly to the public or gambling platforms.

## DATA

It is very difficult to make a prediction model based on a sport, especially fighting. Everything can happen before a bout. My purpose is to make the prediction as fair and transparent as possible. Complying to the GDPR and not distribute any of the data that is being used in the tool that is being developed.

## FUTURE

Improvements of the technology include bias mitigation, better explainability, privacy and long-term adaptability. In order to improve the usage of the product the tool should have fair use guidelines, meaning that there are clear guidelines ensuring the misuse in areas like betting or biased decision-making. Inclusivity and public communication.

## PRIVACY

The technology should operate within strict ethical and legal boundaries, ensuring data is used solely for its intended purpose, and users are provided with mechanisms to exercise their data rights, such as access, correction, and deletion. Regular audits and privacy impact assessments should be conducted to adapt to evolving laws and risks.

## INCLUSIVITY

To fix the bias in the system, more female fight bouts need to be added to the dataset. And in order to ensure that the system is used as it is supposed to be used limitation to access need to take place.

**NAME:** AI tool for predicting MMA matches
**DATE:** April 30, 2025 8:22 PM
**DESCRIPTION OF TECHNOLOGY**
With this tool it will be possible to predict the outcome of a fight between two fighters.

## 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?

## FIND US ON WWW.TICT.IO