IMPROVEMENTSCAN - CANVAS

sign language

NAME: sign language

DATE: May 11, 2025 12:54 AM

DESCRIPTION OF TECHNOLOGY

It can be difficult for people to communicate with deaf people. The amount of people who speak American sign language (ASL) ranges between 500,000 and two million. This means that only approximately 0.5% of people in America alone who understand ASL. Making it difficult for deaf people to communicate with hearing people who will most likely not understand ASL.

HUMAN VALUES

We think that in the future it might be a good idea to form a community around this technology. Giving deaf people a platform to talk to others to and share experiences.

TRANSPARENCY

It should be easy to add new gestures to the dataset. Therefore the dataset should be flexible. Not only for adding but also for updating and removing gestures.

IMPACT ON SOCIETY

A big problem with this technology is the barrier of entry. So we need to make sure that everybody is able to use this technology. A solution might be for businesses to have their own device that has the app. Therefore deaf people no longer have to worry about bringing their own devices.

STAKEHOLDERS

I need to make sure that we look at both the deaf and hearing people equally.

SUSTAINABILITY

Make sure that this technology will use as little resources as possible so that it can be used on many devices and they wont wear out faster due to our technology.

HATEFUL AND CRIMINAL ACTORS

We should make sure that the dataset of words is moderated correctly so that gestures need to be checked out before being added/changed.

DATA

We need to make sure that the data is flexible. And that over time we improve and expand the dataset. And make sure that the dataset is publicly available so that together we can improve and expand it.

FUTURE

Make sure that this technology is easy and intuitive to use for everybody. And make sure that the technology will be free or at least at a low cost.

PRIVACY

I have no improvements.

INCLUSIVITY

We think that the dataset should be diverse. And we think that we should ensure that our team is also diverse

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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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