Dela deaths AI

Coronavirus is a family of viruses that are named after their spiky crown. The novel coronavirus, also known as SARS-CoV-2, is a contagious respiratory virus that first reported in Wuhan, China. On the 2nd November 2020, the World Health Organization designated the name COVID-19 for the disease caused by the novel coronavirus. Our aim, as per Delas instructions, is to explore and predict COVID-19s mortality rates through data analysis and projections.

Impact on society
What impact is expected from your technology?

What is exactly the problem? Is it really a problem? Are you sure?
The technology helps funeral companies prepare for the number of dead people that Dela needs to deliver because of the high mortality rate in the Netherlands.

Are you sure that this technology is solving the RIGHT problem?
Because we train our AI ai on the datasets of other years provided by Dela, this gives us an indication of how many deaths there will be.

How is this technology going to solve the problem?
By predicting the amount of deceased.

What negative effects do you expect from this technology?
The covid-19 pandemic can and the model of the AI will become useless.

In what way is this technology contributing to a world you want to live in?
It helps funeral companies and therefore also the families of the deceased.

Now that you have thought hard about the impact of this technology on society (by filling out the questions above), what improvements would you like to make to the technology? List them below.
Now that we considered the possibility that the covid-19 pandemic will end at some point. Perhaps we can create 2 models on where the pandemic is ended and on where it is not. this will fix the issue.

Hateful and criminal actors
What can bad actors do with your technology?

This category has not been filled yet.

Technology Impact Cycle Tool

Dela deaths AI

Privacy

Are you considering the privacy & personal data of the users of your technology?

Does the technology register personal data? If yes, what personal data?

It registered the number of dead people in the Morgue, so the data is private.

Do you think the technology invades the privacy of the stakeholders? If yes, in what way?

Yes, the data shows the date of death and the region itself, for the family of the diseased this would not be good if it becomes public.

Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why?

For this project, we needed to fill in a non-disclosure agreement (NDA). So data protection by law is applied.

Does the technology mitigate privacy and data protection risks/ concerns (privacy by design)? Please indicate how.

Yes, if the dataset would be leaked there would be privacy protection risks.

In which way can you imagine a future impact of the collection of personal data?

It could be hard for family members if they would find out the location of there diseased on the internet.

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

The safety and privacy of the data is really important because we keep the dataset locally and don't store it in a public repository where it can be stolen.

Technology Impact Cycle Tool

Dela deaths AI

Human values
How does the technology affect your human values?

How is the identity of the (intended) users affected by the technology?
If the data leaks it can be a problem, but currently the technology we create is for the companies Dela. show the identity of users will be protected within the corporation.

How does the technology influence the users' autonomy?
The people from Dela can provide other training data in the future. So to answer this question, Yes the can influence it.

What is the effect of the technology on the health and/or well-being of users?
It collects the data od the Dela registered deaths, So yes it affects the health and/or well-being.

Now that you have thought hard about the impact of your technology on human values, what improvements would you like to make to the technology? List them below.
No improvements for the Human values part. because this tool will be used by the people from Dela, and not publicly for other users.

Stakeholders
Have you considered all stakeholders?

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by answering these questions.

Name of the stakeholder
Paul Heijen

How is this stakeholder affected?
Project client from Dela.

Did you consult the stakeholder?
Yes

Are you going to take this stakeholder into account?
Yes

Name of the stakeholder
Maarten Swemmer

How is this stakeholder affected?
Project client from Dela.

Did you consult the stakeholder?
Yes

Are you going to take this stakeholder into account?
Yes

Did you consider all stakeholders, even the ones that might not be a user or target group, but still might be of interest?

Name of the stakeholder
Pascal Dauphin

How is this stakeholder affected?
He is our mentor and project tutor.

Did you consult the stakeholder?
Yes

Are you going to take this stakeholder into account?

Yes

Now that you have thought hard about all stakeholders, what improvements would you like to make? List them below.
No, if there will be more stakeholders involved we will add them.

Data

Is data in your technology properly used?

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into account in the technology?

The prediction of the AI cant be 100% correct, it is a guide line of how many people will die in that period.

How does the technology organize continuous improvement when it comes to the use of data?

New training data can always be provided. thereby continuously improving the AI.

How will the technology keep the insights that it identifies with data sustainable over time?

The other factors like the dataset from the CBS will be continuously added. So conclusions can be drawn easily between the datasets.

In what way do you consider the fact that data is collected from the users?

By keeping the dataset private and locally.

Now that you have thought hard about the impact of data on this technology, what improvements would you like to make? List them below.

The dataset from an outside source, for example, CBS can provide new insides in the prediction. perhaps we can look into that a bit more during this project.

Technology Impact Cycle Tool

Dela deaths AI

Inclusivity
Is your technology fair for everyone?

Will everyone have access to the technology?
No, only Dela will have access to this technology.

Does this technology have a built-in bias?
The current bias is Covid-19.

Does this technology make automatic decisions and how do you account for them?
It makes a prediction and not dessions. It is only a tool for the people of Dela.

Is everyone benefitting from the technology or only a a small group? Do you see this as a problem? Why/why not?
No, only Dela.

Does the team that creates the technology represent the diversity of our society?
Yes, we have people from different countries and regions.

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to make? List them below.
No, we know that this technology will be created for Dela.

Technology Impact Cycle Tool

Dela deaths AI

Transparency
Are you transparent about how your technology works?

This category has not been filled yet.

Sustainability

Is your technology environmentally sustainable?

This category has not been filled yet.

Technology Impact Cycle Tool

Dela deaths AI

Future
Did you consider future impact?

What could possibly happen with this technology in the future?
It could predict future death tolls, during a pandemic.

Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one utopian scenario.
Nobody dies anymore because of the development of stem cell research, the technology becomes irrelevant.

Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one dystopian scenario.
It is 2050 Covid-19 is still not over. the death rate is rising every day.

Would you like to live in one of this scenario's? Why? Why not?
Yes, becoming immortal is something I always wanted to be.

What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party?
They can do the same with there company data and predict the amount of death in their region.

Impact Improvement: Now that you have thought hard about the future impact of the technology, what improvements would you like to make? List them below.
No Improvement.