Dela AI

AI project for Dela

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Technology Impact Cycle Tool
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Impact on society
What impact is expected from your technology?

What is exactly the problem? Is it really a problem? Are you sure?
This Technology is designed to relief. the shortage of workers for Dela funerals. Right now, there is an excess of funerals. which results in hurried services. This may negatively impact the grieving relatives of the deceased.

Are you sure that this technology is solving the RIGHT problem?
Our technology is a project that was asked for by our client. So we are trying to solve his problem which is right.

How is this technology going to solve the problem?
Our technology of proven working can alleviate. planning problems.

What negative effects do you expect from this technology?
If our predictions do not match reality and Dela focuses to much on our prediction with planning. then it can affect the funerals by under employing for example.

In what way is this technology contributing to a world you want to live in?
If I were to die. I hope my funeral is planned well.

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.
The purpose and improvements of this technology in society provided that our project functions well. Will be that Dela can manage better service's which will also increase the quality of the given service. This will try to prevent the negative effect of under planning and short staffed days, which will lead to a decrease in quality.

Hateful and criminal actors

What can bad actors do with your technology?

This category is not applicable for this technology.

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?

Our data does not contain any sensitive personal information.

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

Our technology does not invade someone's privacy. We do not have sensitive personal data that we use. And the external data is general public data from cbs.

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

The data collections we have are from CBS. These follow the GDPR protocol. Our Dela dataset also follows this protocol. as there is no sensitive data in it. I don't think our technology will be compliant the prediction we try to make Is rather straight forward. It resolves one task.

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

In a way our technology Is private by design. This because we do not use risky data. If our project got hacked or leaked by any chance then It would not result in critical failure or data leak risks.

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

The project could become more personalised in the future. If Dela decides to further personalise the given data. For example add personal information with the deceased numbers. or what type of funeral it is.

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

We think that again we cannot improve our technology on this front. We don't use sensitive data and the external data is open source. Our application also does not require personal information to be used.

Human values

How does the technology affect your human values?

How is the identity of the (intended) users affected by the technology?

The only possible way our technology can negatively impact our user (Dela). Is when the prediction made differs to much from the actual number of services. which can result in under employment for that day. and affect the quality off the services.

How does the technology influence the users' autonomy?

The technology generates a prediction. Our users can then take this prediction into consideration with planning. See it as a possible guideline.

What is the effect of the technology on the health and/or well-being of users?

The model is supposed to relief stress from employee by creating better suited schedules to follow. But it shouldn't negatively impact the well being of Dela's "Customers" by giving them a bad funeral either.

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.

Our technology will indirectly improve the quality of the services Dela gives. This will mean that the relatives and friends of the deceased can have a better grieving process.

Stakeholders
Have you considered all stakeholders?

This category is only partial filled.

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

Name of the stakeholder
Dela

How is this stakeholder affected?
The project we make is for Dela.

Did you consult the stakeholder?
Yes

Are you going to take this stakeholder into account?
Yes

Name of the stakeholder
Relatives

How is this stakeholder affected?
The prediction we make can affect the funerals of Dela an thus impact relatives of the deceased.

Did you consult the stakeholder?
No

Are you going to take this stakeholder into account?
No

Did you consider all stakeholders, even the ones that might not be a user or target group, but still might be of interest?
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Now that you have thought hard about all stakeholders, what improvements would you like to make? List them below.
Dela: We would like to provide technology which can ease staff management and better predict future planning this can result in better quality services.

Relatives: Our technology can indirectly provide positive effects without their

input.

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?
As we previously described. our AI will provide a guideline or prediction. In no possible way should this prediction be final in the making of a services schedule. The data we use originates from deceased people. This will always be somewhat of a unpredictable factor.

How does the technology organize continuous improvement when it comes to the use of data?
The models take prior data into account to have better accuracy and it can be fine tuned too by Dela or us over time.

How will the technology keep the insights that it identifies with data sustainable over time?
Data is being cleaned and it has to match criteria set by us and refined by Dela. So the data stays consistent over time.

In what way do you consider the fact that data is collected from the users?
Since data is anonymous and users are grouped we are not really concerned about this.

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 data we receive from Dela is not enough to make our Ai work. We will extent this data by if necessary: filling, restoring, extending data. The data we use for extension are for example: "Amount of deaths in previous years", "Covid cases", "Region size/Region demographic", "Hospital admissions", "Temperature".

Inclusivity
Is your technology fair for everyone?

Will everyone have access to the technology?
It's just for Dela.

Does this technology have a built-in bias?
The data does not contain personal or specific information. It is not possible for us to determine If the data given is biased.

Does this technology make automatic decisions and how do you account for them?
The models classify data based on date, but everyone is treated equally since its anonymous data.

Is everyone benefitting from the technology or only a a small group? Do you see this as a problem? Why/why not?
The only group benefitting is Dela because it's made for them specifically. However this improves the quality of life for all the people Dela will help so technically it includes everyone "relevant" for Dela.

Does the team that creates the technology represent the diversity of our society?
The technology does. So it's up to Dela.

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to make? List them below.
We do not use data that has biased information. Our Ai also will not generate a biased answer just a calculation of this given data.

Transparency

Are you transparent about how your technology works?

Is it explained to the users/stakeholders how the technology works and how the business model works?

The technology will be easy to work with, It will not contain a lot of unique functionality. We will provide a detailed research document which will contain our findings and predictions of how our AI behaves. This can help understand the way our program behaves.

If the technology makes an (algorithmic) decision, is it explained to the users/stakeholders how the decision was reached?

We provide a research document with our findings and detailed explanations how wo got to our conclusions.

Is it possible to file a complaint or ask questions/get answers about this technology?

We have meetings with Dela. Here we answer and ask questions for our project. We will also present the project in our final presentation. Questions can be asked there.

Is the technology (company) clear about possible negative consequences or shortcomings of the technology?

Not really. It is open for our findings and interpretation. The also do not really deliver good data to provide a revelation in findings.

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

We will provide a research document that will contain the data sets and our findings in developing the Ai. We are transparent with how the Ai thinks and the improvements we will make when developing.

Sustainability

Is your technology environmentally sustainable?

In what way is the direct and indirect energy use of this technology taken into account?

Off course running software requires a server which will use power. Depending on the importance of sustainability. Different servers can be chosen. For example, green servers.

Do you think alternative materials could have been considered in the technology?

Yes we currently use static data however we could've gone for dynamic data. We chose static data because it is easier to clean however we could consider dynamic data in the future when we're comfortable with it.

Do you think the lifespan of the technology is realistic?

The technology is very short lives due to covid being a temporary pandemic (hopefully). However this is a proof of concept for Dela so they can judge if they want to expand this for future possible pandemics.

What is the hidden impact of the technology in the whole chain?

Dela is responsible for hosting the models so it's up to them really. The model does daily calculations so it can consume a lot of power over time. If Dela chooses to go green then the model will do so as well.

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

If deemed necessary we can look. At a green solution to run our Ai for example. A server that runs on clean energy. Right now our Ai will contain Corona data. When the pandemic is over this will need to be removed or potentially replaced with other data.

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Future
Did you consider future impact?

What could possibly happen with this technology in the future?
In the future our technology can be used to advice Dela on the use of (related) prediction models or other AI-techniques.

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.
If our technology works really well. It may take over the Dela planning department.

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.
Our algorithm becomes sentient and starts a company called Skynet.

Would you like to live in one of this scenario's? Why? Why not?
Not really. utopia has less jobs and the dystopia has killer ai roaming around.

What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party?
If they pay enough money they can have it. And do what they please with it.

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.
Our Ai in a utopian future can replace planning jobs. In a dystopian scenario It will plan the worst possible outcomes to worsen human grieving periods.