



NAME: Air Quality for events

DATE: May 2, 2025 7:44 AM


DESCRIPTION OF TECHNOLOGY

Prediction dashboard on air quality data for events.




HUMAN VALUES


For the foreseeable future, no improvements can be made in order to improve the application of human values. However, it should be noted that the application is a supporting application and the users should not be completely reliant on the output of the application to make decisions about events.

TRANSPARENCY

It should be communicated clearly that the application is using machine learning which creates a 'black box' of whom no one knows what happens in it.

IMPACT ON SOCIETY


In the application we need to have disclaimers to specify what the application can and can't be used for, to make sure we are not liable for possible wrong predictions. We would also want to greatly increase the amount of data that is used in the application, to further improve the model. Furthermore, we would like to add possible measures that could be taken to improve (or not worsen) the air quality at events.

STAKEHOLDERS


The stakeholder analysis shows that there are more stakeholders than previously thought about.

SUSTAINABILITY


So far no improvements can be made.

HATEFUL AND CRIMINAL ACTORS


We would like to improve the security of the measuring stations, if these stations can't be manipulated a large amount of 'attacks' can be mitigated. Furthermore, making sure that the system uses 2FA will result in it not being able to be used by others who are not permitted to see the application.

DATA

It would be useful to communicate that the accuracy of the predictions made by the application could deteriorate over time as no new data is added. In the future we also need to discuss the stream of continuous data from both TNO and Zich op Data.

FUTURE

None at this point.

PRIVACY

No improvements regarding privacy and data protection are necessary for the application.

INCLUSIVITY


None at this point.


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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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