Sarcasm detection

a website where you can input text, which will then be analyzed by AI, which will then predict if the text is sarcastic or not

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> Context of use: Other Level of education: Bachelor

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Impact on society

What impact is expected from your technology?

This category is only partial filled.

What is exactly the problem? Is it really a problem? Are you sure? Have you ever received a text message a completely misunderstood it? It is hard to determine the tone of a text message, even for humans. I would like to help fix some of these misunderstanding. This would help avoid awkward situations and even prevent arguments. Knowing if a person meant a text sarcastic or not, is very benifical

Are you sure that this technology is solving the RIGHT problem? This question has not been answered yet.

How is this technology going to solve the problem? This question has not been answered yet.

What negative effects do you expect from this technology? This question has not been answered yet.

In what way is this technology contributing to a world you want to live in?

This question has not been answered yet.

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. This question has not been answered yet.

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Hateful and criminal actors

What can bad actors do with your technology?

This category is only partial filled.

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

I don't think this technology can be used to break to law. Since it is purely text based, of text that the user has to input themselves. The text will not be saved anywhere and the result of the input will only tell you if the text is sarcastic or not. The only way I could see this going bad, is if the result if wrong. It is important to show the accuracy of the prediction incase the predicting is wrong to show the user. Thinking if something is sarcastic when it is not, could only result in more conflict

Can fakers, thieves or scammers abuse the technology? This question has not been answered yet.

Can the technology be used against certain (ethnic) groups or (social) classes?

This question has not been answered yet.

In which way can bad actors use this technology to pit certain groups against each other? These groups can be, but are not constrained to, ethnic, social, political or religious groups.

This question has not been answered yet.

How could bad actors use this technology to subvert or attack the truth?

This question has not been answered yet.

Now that you have thought hard about how bad actors can impact this technology, what improvements would you like to make? List them below.

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Privacy

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

This category is only partial filled.

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

The technology is based on pre-existing data gathered anonymously. Future input by the user will not be stored anywhere. The results of the input will also not be store, it is a temporary result.

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

This question has not been answered yet.

Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why? This question has not been answered yet.

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

This question has not been answered yet.

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

This question has not been answered yet.

Now that you have thought hard about privacy and data protection, what improvements would you like to make? List them below. This question has not been answered yet.

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Human values

How does the technology affect your human values?

This category is only partial filled.

How is the identity of the (intended) users affected by the technology? I believe this technology could possible improve relationships. Avoiding misunderstandings and clearing up arguments that happen over text

How does the technology influence the users' autonomy? This question has not been answered yet.

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

This question has not been answered yet.

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.

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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

People on the autism spectrum

How is this stakeholder affected?

-

Did you consult the stakeholder?

Yes

Are you going to take this stakeholder into account?

Name of the stakeholder

People who have difficulty determining the tone of a text message

How is this stakeholder affected?

-

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?

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Now that you have thought hard about all stakeholders, what improvements would you like to make? List them below. This question has not been answered yet.

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Data

Is data in your technology properly used?

This category is only partial filled.

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into account in the technology? Data only takes a small portion of the total, there are infinite amount of text messages that use sarcasm. If we were to have them all the predications could have a 100% accuracy, this is sadly not possible. So we must comprise and have an error margin.

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

This question has not been answered yet.

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

This question has not been answered yet.

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

This question has not been answered yet.

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

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Inclusivity

Is your technology fair for everyone?

This category is only partial filled.

Will everyone have access to the technology?

This question has not been answered yet.

Does this technology have a built-in bias?

The data to detect sarcasm is gathered from the a dataset that contains around 90k Tweets of the social media platform Twitter. This limits the sarcasm use to only twitter users, this could present a certain bias, against for example sarcasm used in day-to-day text sarcasm. If these two are very different it could result in bad accuracy in the predictions.

Does this technology make automatic decisions and how do you account for them?

This question has not been answered yet.

Is everyone benefitting from the technology or only a a small group? Do you see this as a problem? Why/why not?

This question has not been answered yet.

Does the team that creates the technology represent the diversity of our society?

This question has not been answered yet.

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

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Transparency

Are you transparent about how your technology works?

This category is only partial filled.

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

The dataset gathered from twitter, uses the messages marked as sarcastic or not sarcastic. The AI pulls each text message apart and analyses the different words used in each. Then based on the input of the user it can determine whether it is sarcastic or not, based on the previously analyzed messages.

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

This question has not been answered yet.

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

This question has not been answered yet.

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

This question has not been answered yet.

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

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Sustainability

Is your technology environmentally sustainable?

This category is only partial filled.

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

I plan to employ this technology on the internet in the form of a website. Which has minimal energy use.

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

This question has not been answered yet.

Do you think the lifespan of the technology is realistic? This question has not been answered yet.

What is the hidden impact of the technology in the whole chain? This question has not been answered yet.

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

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Future

Did you consider future impact?

This category is only partial filled.

What could possibly happen with this technology in the future? If the technology has allot of users, it could result in people never having sarcastic misunderstandings over text. or everyone becoming very aware of sarcastic use in text and avoiding it all together.

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.

This question has not been answered yet.

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.

This question has not been answered yet.

Would you like to live in one of this scenario's? Why? Why not? This question has not been answered yet.

What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party? This question has not been answered yet.

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.