Natural Language Processing

Natural language processing (NLP) is the ability of a computer program to understand human language as it is spoken and written -- referred to as natural language. It is a component of artificial intelligence (AI).

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Context of use: Education Level of education: Bachelor

Natural Language Processing

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? Political polarisation in real life, and also on social media (twitter in my scope) is a problem because of the divisiveness it creates in society.

Solving this is in itself would be impossible for me, but maybe this tool can help someone to do things such as identifying echo chambers, or maybe help an analyst with their research, and hopefully promoting more factchecking.

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.

Natural Language Processing

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?

It could be used to cherry pick results based on the analysis and use that to drive a narrative. Whether "good" or "bad".

I'm not sure about laws being broken but you could create a profile on someone specific and their tweet behaviour.

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.

Natural Language Processing

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 itself does NOT register personal data. However, the data being COULD have personal data based on what is being tweeted by the user.

Collect data? No. assemble personal data? Possibly.

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.

Natural Language Processing

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? People could perhaps look into the results of the tool too much, or rather, dictate their actions too much based on the information the tool gives them.

The intent of the tool is to complement, rather than dictate.

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.

Natural Language Processing

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 Researchers

How is this stakeholder affected?

Did you consult the stakeholder?

Are you going to take this stakeholder into account?

Name of the stakeholder Government

How is this stakeholder affected?

Did you consult the stakeholder?

Are you going to take this stakeholder into account?

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

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.

Natural Language Processing

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? I am aware with some of the possible shortcomings. There's not a whole lot I can do except trying to keep the technology's underlying model fitted as well as I can with the data available to me.

This will prove to be tricky with every tool that relies on data.

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.

Natural Language Processing

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?

Built in no, but the available data could have a political bias depending on sample size which could bring a bias to the results.

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.

Natural Language Processing

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 goal would be more so defined depending on who is using it. But in general, it would be fairly straight-forward on what the tool would provide.

It is up to the user to take what it gives and use it in whichever way they deem fit in relation to their goals.

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?

The tool would be run locally on the users computer. So it depends on what kind of computer (small notebook, huge desktop tower) they use.

It is mostly depending on the amount of data that is processed.

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? As more and more data is fitted to the model, researches for example can theoretically get even better results in terms of accuracy.

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.