


NAME: SeCo - Sequence Composer


DATE: May 1, 2025 6:43 PM

DESCRIPTION OF TECHNOLOGY

SeCo, or Sequence Composer, is an AI experimental tool to generate music for various genres and styles. It is not meant to replace the creational process, but rather enhance it and improve it by generating samples and ideas. SeCo still requires further research, however, the initial prototype provides hopeful results where more iteration could improve it further.



HUMAN VALUES




Music is an essential part of nowadays society. It gathers people together and sets an atmosphere and sense of belonging. SeCo aims to help creatives generate music without taking the satisfaction of the music generation process. It aims to support rather than automate the creative process.

TRANSPARENCY



IMPACT ON SOCIETY



Music generation has been a creative process that has been taking place since the very first mentions of society. However, music nowadays is often "stolen" or "copied" from other composers. With high profile lawsuits still ongoing against people like Ed Sheeran, innovation in music could improve the creational process with novel ideas, progressions, and excerpts.


STAKEHOLDERS



SUSTAINABILITY




HATEFUL AND CRIMINAL ACTORS



SeCo can be used to subvert certain legislation by providing samples close to existing ones without copyright put on them (due to their just-in-time generations). Outside of that, SeCo is safe and cannot be used by bad actors for harassment, fraud, forgery, thievery, etc.

DATA



SeCo is designed in a way that does not allow bad actors to influence the decision making process of the tool. It does not collect any data. The data used to power the tool is encoded and sources in accordance and compliance to the GDPR and the respective legislations put in place.

FUTURE




PRIVACY



No.

INCLUSIVITY



No. SeCo's data is source and encoded in an objective fashion without introducing any bias from the developer or the data sources.

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IMPACT ON SOCIETY



What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine...


HATEFUL AND CRIMINAL ACTORS



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

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder...


PRIVACY



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

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like...

HUMAN VALUES




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

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?...

STAKEHOLDERS




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

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.

...

DATA




Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;...


INCLUSIVITY



Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....


TRANSPARENCY



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

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their...


SUSTAINABILITY



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

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

FUTURE



What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

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