


NAME: Escape room AI using stresspatches

DATE: May 2, 2025 8:10 AM


DESCRIPTION OF TECHNOLOGY

Measuring stress to increase the positive experience of an escape room.




IMPACT ON SOCIETY

We're trying to make the escape room experience more dynamic. Giving people more options to complete them and a more challenging experience by measuring their stress and changing the the escape room based on it. It can't be truly called a problem, but it is still something we want to do for others




HATEFUL AND CRIMINAL ACTORS

The AI makes use of health data from the participants of the escape room. This data could be stolen. There is also the possibility of third parties rewriting part of the data or just using the frame work to influence the amount of stress people experience while doing the stresscape rooms.




PRIVACY

If given permission by the participant then the biometric stress data will be saved for AI training purpose.




HUMAN VALUES

There should be no effect on their identity. As all data is taken anonymously, within a group and averaged in that group.




STAKEHOLDERS

- People doing escaperooms
- People operating the escaperoom




DATA

We made our prototype using, little and incomplete data. We are very much aware of the limitations of data. As we have not been able to find complete data set to train our AI. There is also the fact that the AI in practice can only give recommendations to the operator as we don't believe cutting away the human element is a good decision.




INCLUSIVITY

The data is used anonymously. The operator, ai or user can't see from who among the group the data comes froms. Then again, it might be possible for the AI to get a preference of increasing/lowering the difficulty of the escape room based on previous gained data and thus it might be based against groups that tend to have a higher or lower stress baseline.




TRANSPARENCY

Yes, everything about the AI is explained before the participants enter the escape room any questions they have can be answered then.




SUSTAINABILITY

As the AI is hosted locally, the energy consumption of the AI and PC it's running on depends on the environment of the Escape room provider. However the training of the AI also cost a lot of energy. Training a model is energy intensive and depending on how often the AI is trained and how much data is used, the required energy consumption also increases.






FUTURE

There should be no great change to communities. As the intended purpose of the AI is to beter the escape room experience. It might be so that when the experience becomes better, people might be able to relax or de-stress more by experiencing the stress of a challenging escape room. This however is something that is different from person to person.




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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?...

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...

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...

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.
...

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?

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...

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;...

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?

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...

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....

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