



NAME: Baby Don't Cry 


DATE: September 23, 2020 7:18 AM

DESCRIPTION OF TECHNOLOGY
An app that 'listens' to a crying baby and analyzes the crying. The app knows if the baby is hungry or tired or in pain (for example)


The app is trained on over 200.000 crying babies and can be personalized on your baby. The analysis is 80% accurate for identifying a baby's emotional state.

HUMAN VALUES 


This is something we worry about. We want our users to be good parents. We do not want to give the impression that an app can replace parental instincts. However parenting is something you have to learn and can be stressfull. That is why we want to support parents with our app. It helps you to become the young parent you want to be.

TRANSPARENCY 


Yes, we are very clear about that. Our app reaches conclusions using machine learning in a black box based on 200.000 crying babies. We make money by selling licenses, we do not sell or share data.

IMPACT ON SOCIETY 


Being a new parent can be stressfull. Having a baby is new and parents are often insecure. Why is the baby crying and how can we comfort the baby? The app helps parents to analyse the crying of the baby. This accounts for parents that have more confidence, are less insecure and therefore have a more positive influence on the wellbeing of the baby. The app therefore is primary designed to increase the wellbeing of the baby by boosting the confidence of the parents.

STAKEHOLDERS 


- The baby
- The Parents
- Grandparents
- Consultancy agencies
- Privacy Organisations
- Researchers

SUSTAINABILITY 


Our servers are hosted in green datacenters. The app has a license system so it is only used when a parent decides to 'listen' to a crying baby. There is no always-on-app. Also, you do not have to buy a new phone for the app. The app runs on older model phones.

HATEFUL AND CRIMINAL ACTORS 


We do not really see any way that our technology can be used to break the law or avoid facing the consequences of breaking the law.

DATA 

Very much. We understand that we only listen to the baby. We do not monitor other things (like temperature of heart rate). We also know that background noise can influence our analysis. That is why we are careful to communicate that our app is only correct 80% of the time and parents should be aware of false positives or negatives.


FUTURE 

We envision a future in which machine learning becomes better and our app improves a lot. Using an app to analyze your baby's crying will be standard for all care takers and will greatly improve the care for babies. In some countries the app will be provided for by health Insurance companies. The app will just be something that is very normal in a world full of artificial intelligence.

PRIVACY 

Yes, it does. We ask the user of the app to give information on the gender and race of the baby. We do this, so we can improve our app. Also, we ask the user to give information like a name and address.

We trained the app with data of crying babies that is anonymized.

INCLUSIVITY 


We made sure the data in our app was collected from babies from all kind of races and gender. However, we are continuously improving with new data by users from the app. These users are often caucasian and it are parenst that really care about their baby or parents with problem babies.

That is why we have a large group of researchers to help us find an correct biases.

FIND US ON www.tict.io

THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON [WWW.TICT.IO](http://www.tict.io)


  

NAME: Baby Don't Cry 

DATE: September 23, 2020 7:18 AM


DESCRIPTION OF TECHNOLOGY
An app that 'listens' to a crying baby and analyzes the crying. The app knows if the baby is hungry or tired or in pain (for example)

The app is trained on over 200.000 crying babies and can be personalized on your baby. The analysis is 80% accurate for identifying a baby's emotional state.

HUMAN VALUES 


How does your technology affect the identity of the user(s)?

To answer this question think about sub questions like: can the technology be perceived as stigmatising? Does the technology imply or impose a certain belief or world view? Does the technology affects user(s) dignity? Is the technology in line with the person the user wants to be perceived as?

TRANSPARENCY 

(How) is explained to the users how a technology works and how the businessmodel works?

Is it easy for users to find out how your 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 business model works?

IMPACT ON SOCIETY 


What is the challenge at hand? What problem (what 'pain') does this technology want to solve?

This technology is designed to solve a problem. That is why it is important to exactly define which problem this technology is going to solve. Can you make a clean definition of the problem? What 'pain' does this technology want to ease? Whose pain? The problem definition will help you to determine and discuss if you are solving the right problem.

STAKEHOLDERS 


What are the main users/targetgroups/stakeholders for this technology?

For the quickscan, you only have to list the stakeholders. Can you think of the people that are directly or indirectly affected by this technology? There are a lot of stakeholders that are obvious (like users) but we invite you also to think about the less obvious ones. Missing a stakeholder can have large consequences.

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 the service is that you want this technology to provide and how this could be done that with a minimal use of energy.

HATEFUL AND CRIMINAL ACTORS 


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

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

DATA 


Are you aware of the limitations and subjectivity of data and is this reflected in this technology?

It is important to understand the limitations of data and it is equally important to design a technology accordingly. Are you aware of limitations of the data used? How does this technology copes with concepts like subjectivity, incomplete datasets, feedbackloops and so on?
...

FUTURE 


What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here.

PRIVACY 

Does this 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. 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 this technology collects special personal data (like health or ethnicity) your should be extra...

INCLUSIVITY 

Does this technology have a built in bias?

Do a brainstorm. Can you find a builtin bias in this technology? Maybe because of the way the data wascollected, 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 youknow this is not the case? Be critical. Be aware of your own biases.

FIND US ON WWW.TICT.IO

THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO