

AI AGAINST HATE SPEECH

AI Democratization UvA seed grant 2022-2023

Human(e) AI workshop, 10 November 2023

Giovanni Sileno g.sileno@uva.nl (UvA/Ivl)

Katia Shutova (UvA/ILLC), Anand Sheombar (HU), Tamara Witschge (HvA)

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4 Master students!

Karolina Drabent
L. Tiyavorabun
Dexter Adams
Abhinav Bhuyan

AI Democratization seed grant



AI Democratisation

Artificial Intelligence (AI) already has a transformative impact on our societies. There is more potential to improve people's everyday lives, culturally, socially and economically. This potential stands and falls with further AI democratisation, by which we mean the extent to which people are involved in the design, development, application, and testing of AI. AI democratisation is currently reduced either to the responsible, transparent, and explainable development of AI in the science and tech industries or to the regulation of AI by governments and institutions to curb the power of platform companies and empower users to make informed choices. To harness the full potential of AI to improve the quality of people's lives and to help respond to persistent social challenges such as social injustice and inequality, a stronger push for the democratization of AI beyond these initiatives is needed. It entails an approach in which individuals, communities, and civil society play a central and continuous role in the design, development, application, and advancement of AI and the conceptualisation of the values that inform its design.

In what sense can we make AI democratic?

- ownership?
- understanding?
- control?
- oversight?
- usage?

Context: CommuniCity project



CommuniCity is looking for innovative solutions

CommuniCity is a transformative citizen-centred project funded by the European Commission under the Horizon Europe Programme. We work together with tech companies and providers, organisations, cities and their residents to develop innovative technical solutions to overcome digital, urban and social challenges.

The first round of pilots is coming to an end and it has been an insightful experience so far for the Partnering Cities of Amsterdam, Helsinki and Porto. Now that the second round of CommuniCity Open Calls has been launched, we are looking forward to sharing the knowledge, the good practices and the experience that we acquired, with the Replicator cities – Aarhus, Breda, Prague and Tallinn – that have joined this journey.



- Horizon EU-funded project (coordination action)
- focus on pilots for/with/by *vulnerable* and *marginalized* communities
- role of UvA: **reflection and analysis**



12 partners



7 cities



36 months



100 pilots

Origins: EOOH



The homepage of the EOOH website is shown. The background is dark with a subtle pattern of red and blue light streaks. In the center, there is a large, white, bold title: 'Unveiling the European Landscape of Online Hate: Insights from two years of the European Observatory of Online Hate'. At the top left, the EOOH logo is present. At the top right, there is a navigation bar with links to 'Home', 'Blog', 'Articles', 'Podcasts', 'About Us', and 'Contact', along with social media icons for Twitter and LinkedIn. A 'Sign up for updates!' button is located in the top right corner of the main content area.

- EU-funded action (DG justice)
- platform for investigation into and reporting of online hate
- lexical-based tools
- human annotation platform

Research questions

- How to do inclusive co-creation (with respect to hate speech)?
→ potential of follow-up pilots for CommuniCity

Research questions

- **How to do inclusive co-creation** (with respect to hate speech)?
→ potential of follow-up pilots for CommuniCity
- **How different groups perceive hate speech?**
Datasets are generally collected by means of some heuristics, and are not annotated by target groups. Are those datasets good?
→ distinguishing passive/active ways of engaging with sensitive language

Resources

- 200h for UvA students
- 50h for 4 students

approx. 8 days of 7h, approx 2 months for 1 day per week

- 2x AI, Computer science, Information studies student
- 2x Social sciences, Media studies, ... student

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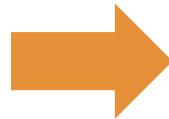
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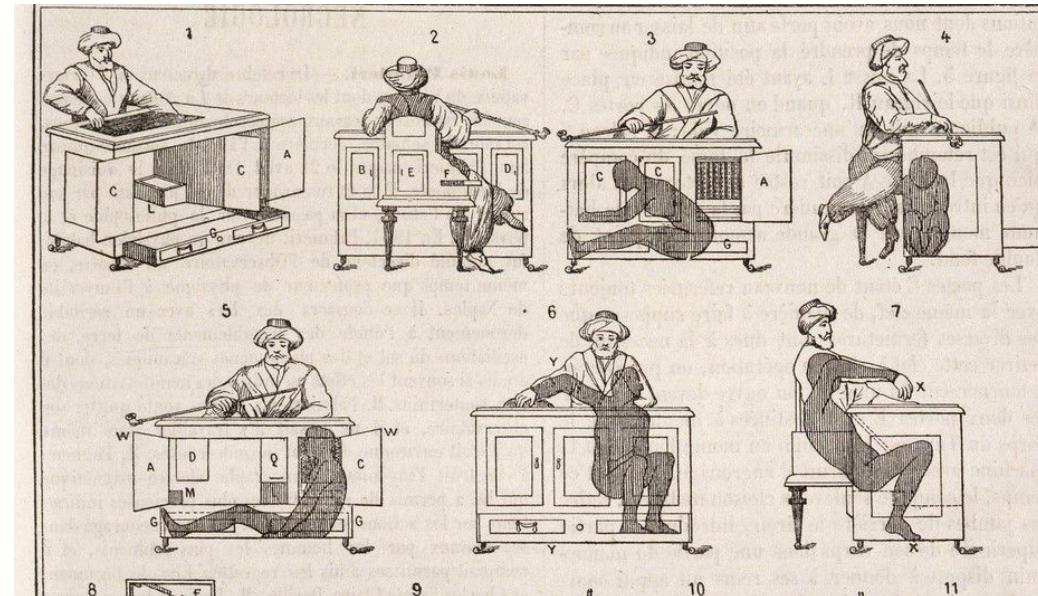
The overall project took ~5m for the core, ~10m since the start.

Principles: 2 levels co-creation

- target communities have to be approached avoiding extractive practices, but **empowering** them to decide what is important to work on



NO to mechanical turk processes and alike



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- **students** are the ones doing the groundwork, they need to have a primary role in **deciding what to do**

Principles: 2 levels co-creation

- **target communities** have to be approached avoiding extractive practices, but **empowering** them to decide what is important to work on
- **students** are the ones doing the groundwork, they need to have a primary role in **deciding what to do**
- we “seniors” are in for guidance, support, and check & balances

Preliminary exploration(s)

Students were involved in or organized autonomously various meetings with:

- Gijs, sociologist (EOOH)
- Alina, PhD student (UvA)
- Leda, PhD student collaborating with EOOH (Trinity college)
- Pierre, developer (EOOH)
- Lydia, project manager (EOOH)
- Rula, community activist
- Marta, anthropologist
- Maurice, researcher (HvA)
- ...

Primary goal objective: co-design event

- Marginalized communities are the most targeted and affected by hate speech online, however they are rarely if ever consulted when designing AI hate speech detection tools.
- Students selected to focus on LGBTQ+ community

Co-design event

To facilitate perception of safety and sense of belonging, the students opted for:

- community space (Bar Bario)
- community kitchen (Mama Haq's)
- to acknowledge participation (vouchers)
- code of conduct (making explicit the possibility of stepping out at any moment)

Advertised on digital channels, flyers in various community venues and universities.

CO-CREATION SPACE

AI AGAINST HATE SPEECH

Sign-up:



Are you:

- A member of the queer community
- Have experienced online hate speech
- Interested in sharing your thoughts
- Curious about the role of AI in content moderation

Where: Bar Bario

When: 15th of June 17:00 – 20:30

Sign-up: <https://tinyurl.com/signup-aihs>

We are organising a shared event to discuss online hate, technology, and the role of community.



Interdisciplinary research project
Part of the Human(e) AI RPA/UvA
in collaboration with EOOH

Registration is required. A honorarium will be provided for participation. Optional Dinner.

Email us at: aiaagainsthatespeech@proton.me --- More info: bit.ly/aivhshs

Co-design event

- Divided in three main parts:
 - **AI and speech** (led by Karolina)
 - **community** (Lea)
 - **society** (Dexter)

3h30 + dinner

~ 20 participants

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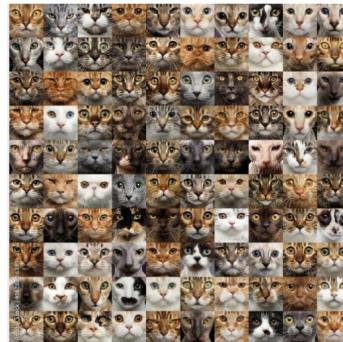
Co-design event: AI and speech (1)

- Knowledge sharing:

Co-design event: AI and speech (1)

- **Knowledge sharing:**
 - student of AI explaining AI!

We can give a lot of examples of cats and let the computer decide on its own, which features are important for a cat to be a cat



Co-design event: AI and speech (1)

- Knowledge sharing:
 - student of AI explaining AI!
- **Data labeling case study**
 - participants share opinions about few examples of (not extreme) hate speech directed at queer people.
 - optionally suggest a way of labeling them
 - **ways out:** take a break or using notes on the wall

This table is made of wood.

Oh, you're gay? Cool. My sister was also experimenting when she was eighteen.

Co-design event: Community (2)

- **Discussion**

the community is given the opportunity to

- **reflect on**
 - their experience with hate speech
 - what they define as hate speech



Co-design event: Community (2)

- **Discussion**

the community is given the opportunity to

- **reflect on**
 - their experience with hate speech
 - what they define as hate speech

- **formulate**
 - how they would like hate speech to be treated online



Co-design event: Society (3)

- **Knowledge sharing:**
 - student of media studies framing the core problems!

Co-design event: Society (3)

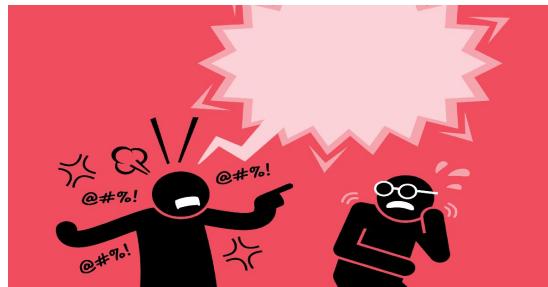
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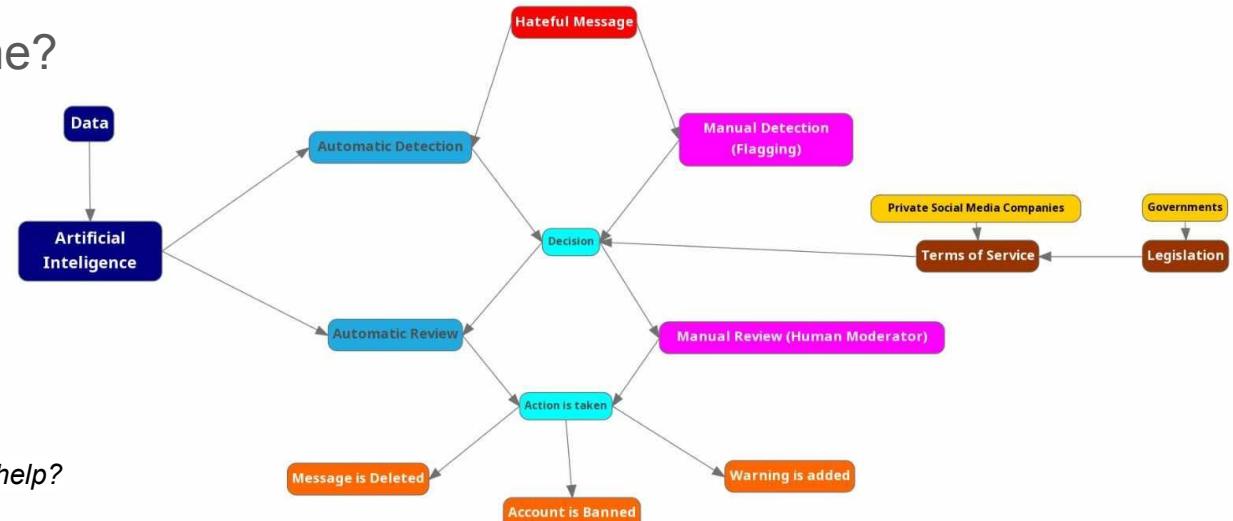
The problem of **codifying hate speech**: who governs hate speech policy (government, market, some third way)?

The problem with **flagging**: how user feedback works in practice?



Co-design event: Society (3)

- **Knowledge sharing:**
 - student of media studies framing the core problems!
- **Discussion:**
 - where to intervene?



Co-design event: core conclusions (1)

- Only few speech examples were discussed (so the outcome cannot be presented as an annotation effort)

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Co-design event: core conclusions (1)

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- Generally, people converged to similar conclusions with respect to speech tagging

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Co-design event: core conclusions (1)

- Only few speech examples were discussed (so the outcome cannot be presented as an annotation effort)
- Generally, people converged to similar conclusions with respect to speech tagging
- Yet, there was some interesting insight on the contextual mechanism involved: ***beyond the text, eg. it depends on where/when/by whom the speech is said***

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Co-design event: core conclusions (2)

- Community is believed to be **very important**



Co-design event: core conclusions (2)

- Community is believed to be **very important**
- **Diversity** is **difficult** to be achieved, community spaces help, but yet this dimension needs to be improved



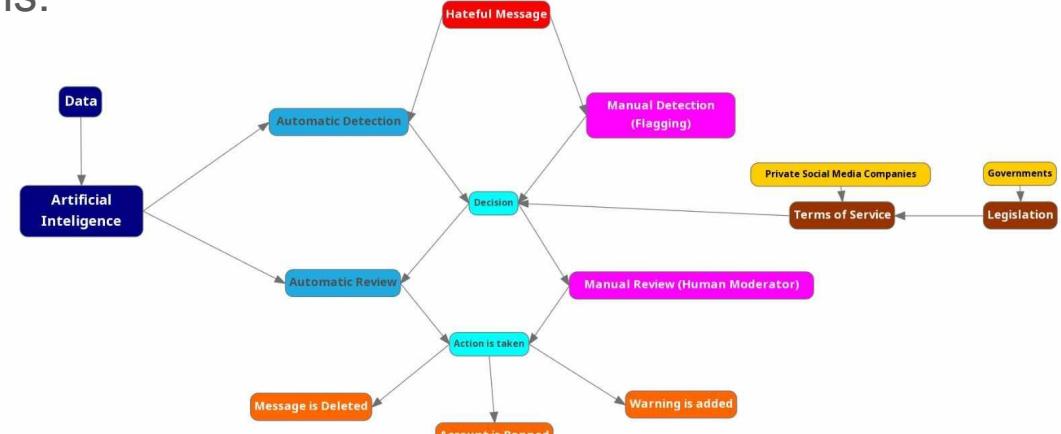
Co-design event: core conclusions (2)

- Community is believed to be **very important**
- Diversity is **difficult** to be achieved, community spaces help, but yet need to be improved
- **Informing** is generally deemed to be **more important** and **on the point than banning**



Co-design event: core conclusions (3)

- There was **no time** to discuss the societal aspects of hate speech, but...
- **people were eager to discuss** and be involved in this sort of discussion, and **would love** that **more spaces** were open to this.



Secondary goal objective: technical advances

- We intended to use the EOOH platform during the co-design effort, eventually it became clear that it was too complex

Secondary goal objective: technical advances

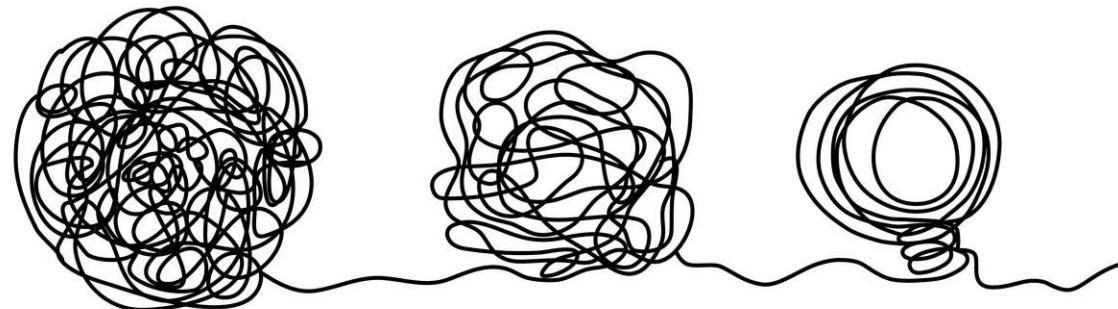
- We intended to use the EOOH platform during the co-design effort, eventually it became clear that it was too complex
- One AI student (Abhinav) performed experiments fine-tuning a context-based classifier vs the lexical-based tools of EOOH.
 results already presented in the literature were confirmed
(context-based classifiers work much better)

Secondary goal objective: technical advances

- We intended to use the EOOH platform during the co-design effort, eventually it became clear that it was too complex
- One AI student (Abhinav) performed experiments fine-tuning a context-based classifier vs the lexical-based tools of EOOH.
 - results already presented in the literature were confirmed
(context-based classifiers work much better)
- EOOH uses lexical-based approaches for **legal requirements** of **traceability**, yet, by integrating a context-based detector, they could provide an idea of **how many “implicit” hate-speeches may be out there**

Conclusions (i)

- The project has been **too complex from a practical point of view**, temporal resources were greatly insufficient for the students to set up all in the scale we were planning, and it required (too) much coordination compared to the available resources



Conclusions (ii)

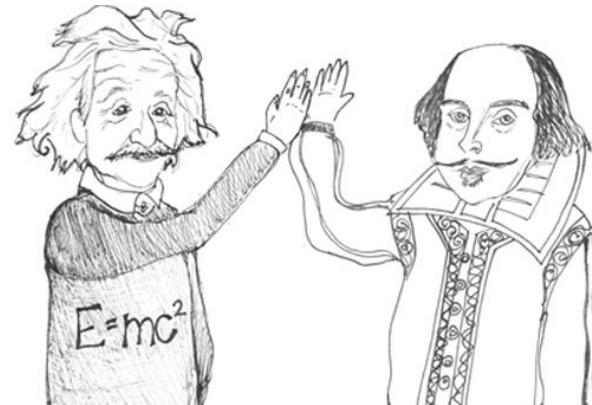
- We acknowledge also a **lack of experience/expertise** for computational students (and us computational researchers) with respect to **best practices in social research**

In foresight, a formal collaboration with would have been better, but the problem was explicitly ill-defined for being open to “free” *exploration* with respect to co-design of technology



Conclusions (iii)

- While looking for student assistants, there were **much fewer applications from students from humanities** (a few from media studies, a few more from philosophy, no one from sociology, anthropology, or geography) compared to computational studies (AI, data science),
- Why? Different ways of getting student assistants between faculties, or some more fundamental issue?



Conclusions (iv)

- The event strongly confirmed that people want to be involved in the governance of technologies and providing guidance to innovation!

PEOP^{LE}

hA^{VE}

t^{HE}

p^{OW}E^R

?

Conclusions (iv)

- The event strongly confirmed that **people want to be involved in the governance of technologies** and providing guidance to innovation!
- As a practical learning experience, we know better what is needed and how to organize such type of event. Replicable (with more funding) for some actual innovation effort? How can it be more effective?

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