

(Generative) AI in Online Social Spaces

Ruotong Wang
2024.03.05

The rest of the quarter...

Wrap up prototype implementation

Thursday

- Prepare poster
- Prepare pitch
- Prepare demo video

Poster Printing!

- Use Figma, Google Slides, PowerPoint, Keynote, Adobe Illustrator or some other design software
- **MAKE SURE:** Set your page size to 32in x 40in (portrait) or 40in x 32in (landscape)
 - For Google Slides go to File > Page Setup > Custom to set the page size to 32" x 40" or 40" x 32".
 - If you're making your poster in Figma, the dimensions for your frame should be 2800 x 2304
 - If you're making your poster in Keynote, the dimensions should be 2595pt x 3456pt
- If you email a PDF to ruotongw@cs.washington.edu by **Mar 11 MONDAY 2 PM**, I will print it for you for free.

Regional Anesthesia Reference App

Improving Efficiency of Anesthesiologists through App Redesign

Problem

In a fast-paced work environment, effective review of critical knowledge is crucial for an anesthesiologist's time management.

Solution

We intuitively restructured content based on relevance to anesthesiologist's goals of expediency and the requirements of our clients.

Block List Challenge
Instead of having to scroll through a long list of menu items in the menu bar, users are now able to browse through all items with greater ease.

Block Break
Instead of having to struggle through cluttered content and unhelpful images, users are now able to find the information they want efficiently.

Calculator
Instead of having to interact with tiny buttons and confusing numbers, users are now able to calculate drug dosages with greater clarity and ease.

Process

Empathize
Care to understand the work of medical professionals through interviews and usability testing of the current app.

Ideate
We increase low-fidelity wireframes with the software reimagining of crucial medical content to create a polished high-fidelity prototype.

Prototype
Combined our meaningful wireframes with the software reimagining of crucial medical content to create a polished high-fidelity prototype.

Test & Refine
After testing the usability of our redesign with 8 student participants at the Life Medical Center, we labeled final versions.

Horizon Worlds: **Object Scanner**

Building the Metaverse with Real World Objects

Team Capstone
2021-2022

Members:

Horizon Worlds & Metaverse

Horizon Worlds is a Metaverse experience where users can explore, create, and interact with virtual worlds. It is a platform for social interaction and collaboration.

Design Question

How might we increase user engagement in Horizon Worlds by making it more intuitive?

Solution

We designed a companion app that scans real-world objects and uploads them into Horizon Worlds, making it more engaging and interactive.

How It Works

1. Point your camera at an object that you want to scan.
2. Walk around the object while the app scans it.
3. Add the object to your Horizon Worlds Asset Library.
4. Access the object through a VR headset and place it in your world.

Research

Teaching Character
Competitive Analysis & Literature Review. Spend time in Horizon Worlds. Research on online platform experiences and usability differences between phones and VR headsets. Research best practices in VR research and design.

Learning from Others
User Interviews & Co-Design. Engaged consumer health professionals, and design experts to help us understand the needs of a mobile companion app, discover design patterns for augmented reality learning.

Design

Sketches & Wireframes
Created and iterated on low-fidelity sketches and wireframes based on user input and our design sessions and user interviews.

Usability Tests & Interactive Prototype
Conducted usability tests with individuals who were familiar with VR but not with our design sessions and user interviews. The product concept was refined before building an interactive prototype.

W COLLEGE OF ENGINEERING
UNIVERSITY OF MISSOURI

HUMAN-CENTERED DESIGN & ENGINEERING

uTutorBoard

Capstone Team:
Shafiqul Kurnain | shafiqul@umc.edu
Michelle Ma | michelle@umc.edu
Chau Nguyen | chau@umc.edu

eTutorBoard

How can we design an integrated mobile-based solution to address the interpersonal communication needs in online education?

With an increase in demand for a better online learning experience, our mobile application aims to solve students' frustrations with the lack of online communication and interactions with peers and teachers.

Live Session
Integrated live classroom where students can interact with teachers through raising their hands and answering poll questions.

Dashboard
Main dashboard page provides students access to individual classroom pages and one-click to join live sessions.

Multi-Task
Minimizing feature allows students to access different parts of the application without the need to leave the live session.

Our Process

Research
Through user interviews with 16 student participants, we discovered a lack of communication and interactions in the online learning environment compared to in-person learning.

Prototype
We developed wireframes, low-fidelity prototypes, and high-fidelity prototypes aimed to address our design question.

Evaluate
Our team conducted usability studies with 8 students to test the high-fidelity prototype. We used our findings and user feedback to make design improvements.

What to include in a poster

- Title, group members, contact info
- Problem statement
- Brief description of your system
- Key features + screenshots
- Overview of your process

Tips

- Use high-quality images
- Minimize text, use visual cues instead

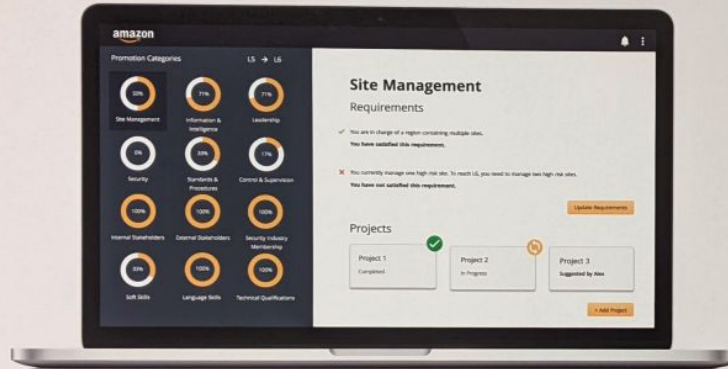
Competency Assessment Tool (CAT)

Amazon Global Security Operations



HUMAN CENTERED DESIGN & ENGINEERING
UNIVERSITY of WASHINGTON

Nathan Han
Jang Soo Lim
Monica Posluszny
Helene Shea



What is the CAT?

The Competency Assessment Tool (CAT) is designed to help Amazon employees understand and track their promotion requirements. It was initially developed in Excel, but was never released for use.

Our Work

Our goal was to redesign and optimize the CAT to develop a research-driven prototype. Our redesign of the CAT has the same basic concept of the original CAT, but also has new features that can help improve the user's experience.

Key Features

Check and Update Promotion Requirements



Users can easily check the promotion requirements they have and have not fulfilled. They can also update the CAT as they gain additional qualifications within the 12 promotion categories.

Add & Manage Projects



Users can add, remove, and edit projects to be archived in the CAT. These projects can also be organized by project status, promotion categories, and leadership principles.

Manager Mode



Managers have an additional feature in the CAT that allows them to view the promotion status of the employees they are managing, assign/suggest projects to them, and leave feedback for them.

Export Promotion Status



Users can export a summary of their promotion progress and projects as a PDF.

Design Process



User Research

Conducted user research to better understand Amazon Loss Prevention employees and the problem space revolving around tracking promotion requirements. Our group interviewed 5 and surveyed 65 employees.



Ideation

Conducted brainstorming and sketching sessions to explore our initial ideas on the key features and layout of the CAT based on our user research findings.



Prototyping

Created multiple, iterative prototypes of the CAT to rapidly test our visual design, interactive elements, and key functions.



Evaluation

Conducted usability testing on new iterations of the prototype with Amazon Loss Prevention employees to receive feedback and improve our previous design of the CAT.



Improving Efficiency of Anesthesiologists through App Redesign



Problem

In a fast-paced work environment, effective review of clinical knowledge is crucial for an anesthesiologist's time management.

Solution

We intuitively restructured content based on relevance to anesthesiologists' goals of expediency and the requirements of our client.



Block List (Homepage)

Instead of having to scroll through a long list of nerve blocks in the menu bar, users are now able to browse through all blocks with greater ease.



Block Detail

Instead of having to struggle through cluttered content and unhelpful images, users are now able to find the information they want efficiently.



Calculator

Instead of having to interact with tiny buttons and confusing numbers, users are now able to calculate drug dosages with greater clarity and ease.

Process

Empathize



Came to understand the work of resident anesthesiologists through interviews and usability testing of the current app.

Ideate



We created low fidelity wireframes with design solutions based on their shared struggles.

Prototype



Combined our meaningful aesthetic decisions with the wireframe restructuring of crucial medical content to create a polished high fidelity prototype.

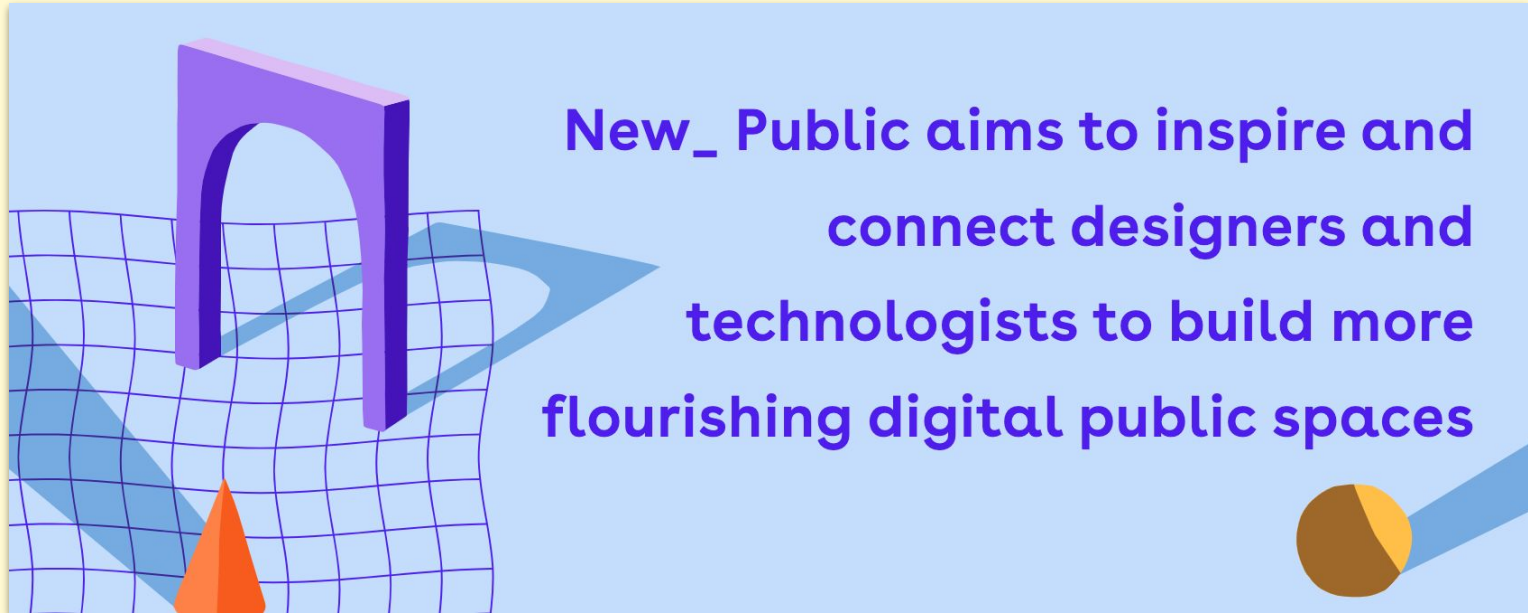
Test & Refine



After testing the usability of our redesign with 4 resident anesthesiologists at the UW Medical Center, we calibrated final revisions.

Today's plan

- Guest Speaker: Deepti, Co-Director of [New Public](#), community organizer, former Director at Meta

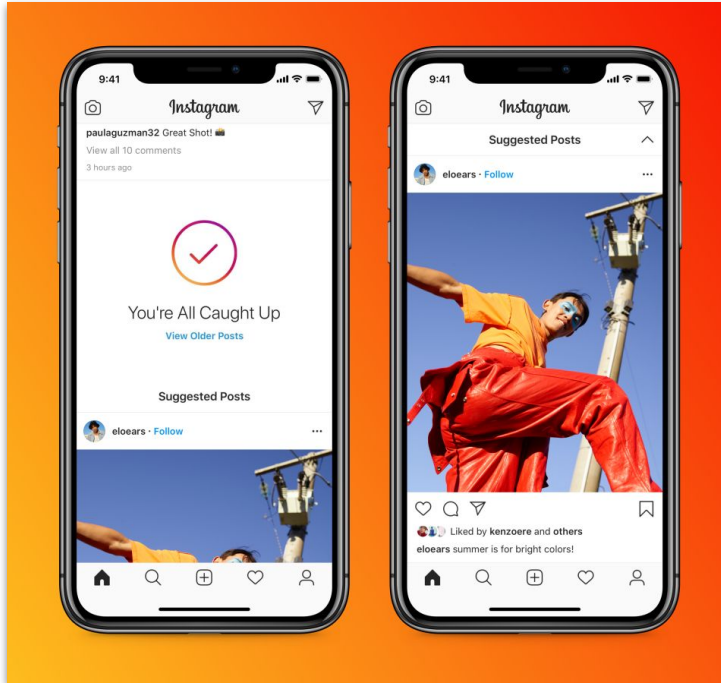


Today's plan

- Lecture on generative AI in social environments
 - AI bots
 - AI generated content
 - Trust
- Poster & pitch work time

AI in social computing systems

Social media feed ranking



"People you may know"



I think the "People you may know" section on Facebook should be changed to "People I'm deliberately not friends with".

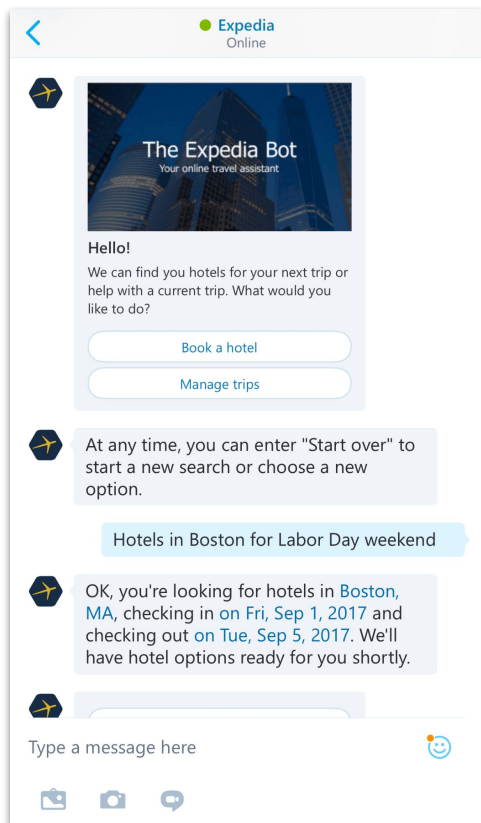
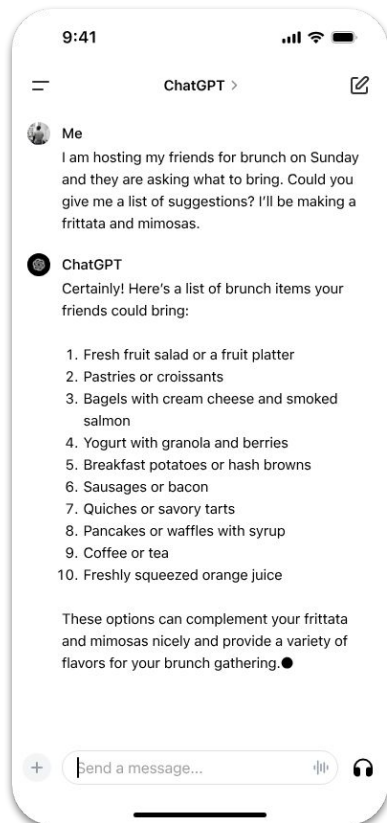


your eCards
someecards.com

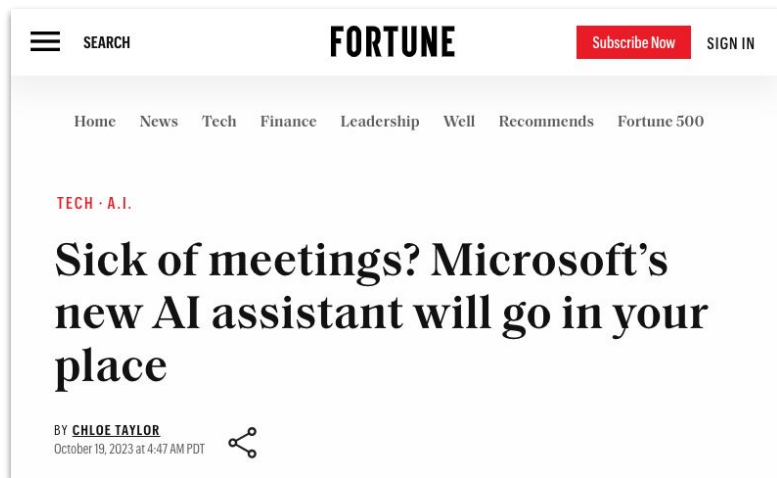
AI bots in online spaces

AI not only sort and organize social data, but could also act as **an agent that directly interacts with users.**

AI chat assistants



AI bots to attend meetings



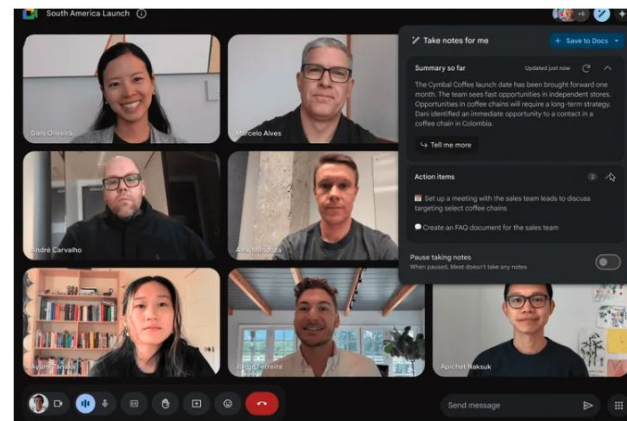
GOOGLE / TECH / APPS

Google Meet's new AI will be able to go to meetings for you / Duet's main job is to help you catch up on and remember what happened in your Meet calls. But it can also maybe save you the trouble of attending in the first place.

By [Jay Peters](#), a news editor who writes about technology, video games, and virtual worlds. He's submitted several accepted emoji proposals to the Unicode Consortium.

Aug 29, 2023, 5:00 AM PDT

[9](#) Comments (9 New)



Next time you zone out in a meeting, Meet can help you catch up on what you missed. Image: Google

AI bots to go on virtual first dates and become therapist

HOME | NEWS | NATIONAL

Skip the first date: New matchmaker app sends AI avatars to meet each other



Dating app in smartphone. File photo ... [more >](#)

PREMIUM

By Sean Salai
The Washington Times
Tuesday, January 23, 2024

TECHNOLOGY | ARTIFICIAL INTELLIGENCE

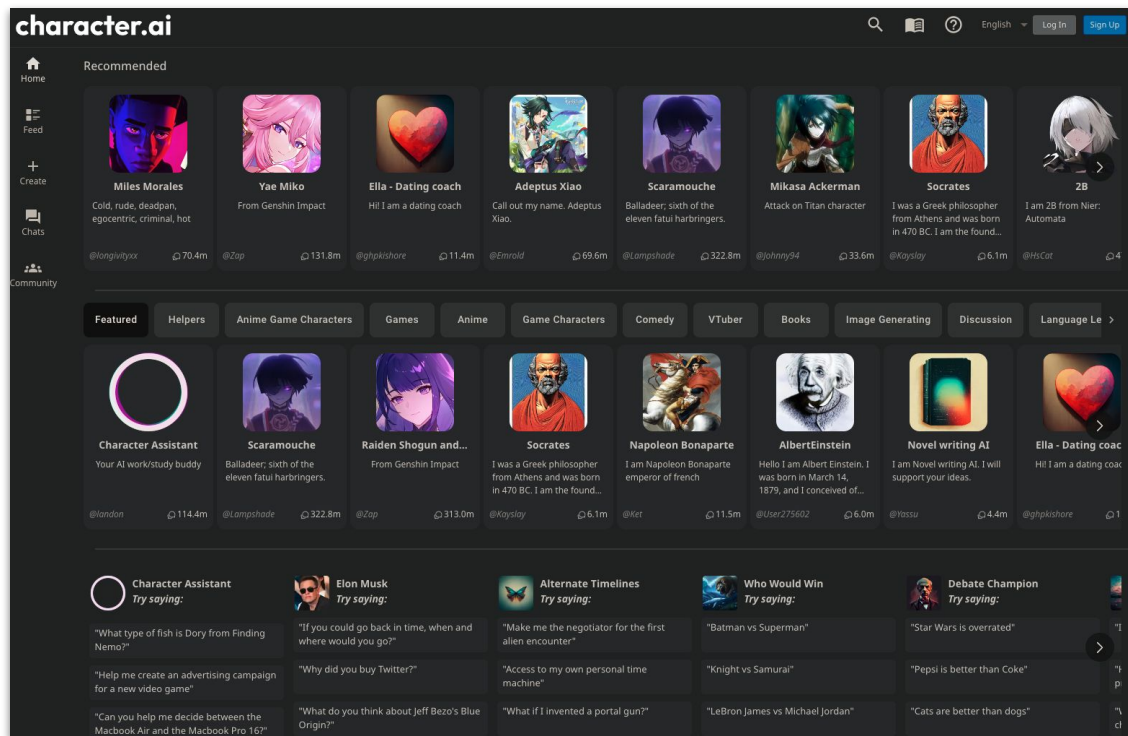
Employers Are Offering a New Worker Benefit: Wellness Chatbots

The apps use artificial intelligence to hold therapist-like conversations or make diagnoses

By [Stephanie Armour](#) [Follow](#) and [Ryan Tracy](#) [Follow](#)

Dec. 27, 2023 8:00 am ET


AI bots are becoming important actors in online social spaces, and increasingly more in critical contexts



Should we interact with AI bot the same as human actors?

AI or Stochastic Parrots?

*Large Language Models are just stochastic parrots - **they simply replicate patterns** found in the text they are trained on and therefore can't be or become generally intelligent like a human.*



On the Dangers of Stochastic Parrots: Can Language Models Be Too Big?

Emily M. Bender*
ebender@uw.edu
University of Washington
Seattle, WA, USA

Angelina McMillan-Major
aymm@uw.edu
University of Washington
Seattle, WA, USA

Timnit Gebru*
timnit@blackinai.org
Black in AI
Palo Alto, CA, USA

Shmargaret Shmitchell
shmargaret.shmitchell@gmail.com
The Aether


ABSTRACT

The past 3 years of work in NLP have been characterized by the development and deployment of ever larger language models, especially for English. BERT, its variants, GPT-2/3, and others, most recently Switch-C, have pushed the boundaries of the possible both through architectural innovations and through sheer size. Using these pretrained models and the methodology of fine-tuning them for specific tasks, researchers have extended the state of the art on a wide array of tasks as measured by leaderboards on specific benchmarks for English. In this paper, we take a step back and ask: How big is too big? What are the possible risks associated with this technology and what paths are available for mitigating those risks? We provide recommendations including weighing the environmental and financial costs first, investing resources into curating and carefully documenting datasets rather than ingesting everything on the web, carrying out pre-development exercises evaluating how the planned approach fits into research and development goals and supports stakeholder values, and encouraging research directions beyond ever larger language models.

CCS CONCEPTS

- Computing methodologies → Natural language processing.

ACM Reference Format:

Emily M. Bender, Timnit Gebru, Angelina McMillan-Major, and Shmargaret Shmitchell. 2021. On the Dangers of Stochastic Parrots: Can Language Models Be Too Big? . In *Conference on Fairness, Accountability, and Transparency (FACET '21)*, March 3–10, 2021, Virtual Event, Canada. ACM, New York, NY, USA, 14 pages. <https://doi.org/10.1145/3442188.3445922>

1 INTRODUCTION

alone, we have seen the emergence of BERT and its variants [39, 70, 74, 113, 146], GPT-2 [106], T-NLG [112], GPT-3 [25], and most recently Switch-C [43], with institutions seemingly competing to produce ever larger LMs. While investigating properties of LMs and how they change with size holds scientific interest, and large LMs have shown improvements on various tasks (§2), we ask whether enough thought has been put into the potential risks associated with developing them and strategies to mitigate these risks.

We first consider environmental risks. Echoing a line of recent work outlining the environmental and financial costs of deep learning systems [129], we encourage the research community to prioritize these impacts. One way this can be done is by reporting costs and evaluating works based on the amount of resources they consume [57]. As we outline in §3, increasing the environmental and financial costs of these models doubly punishes marginalized communities that are least likely to benefit from the progress achieved by large LMs and most likely to be harmed by negative environmental consequences of its resource consumption. At the scale we are discussing (outlined in §2), the first consideration should be the environmental cost.

Just as environmental impact scales with model size, so does the difficulty of understanding what is in the training data. In §4, we discuss how large datasets based on texts from the Internet overrepresent hegemonic viewpoints and encode biases potentially damaging to marginalized populations. In collecting ever larger datasets we risk incurring documentation debt. We recommend mitigating these risks by budgeting for curation and documentation at the start of a project and only creating datasets as large as can be sufficiently documented.

As argued by Bender and Koller [14], it is important to under-

We tend to overtrust AI bots

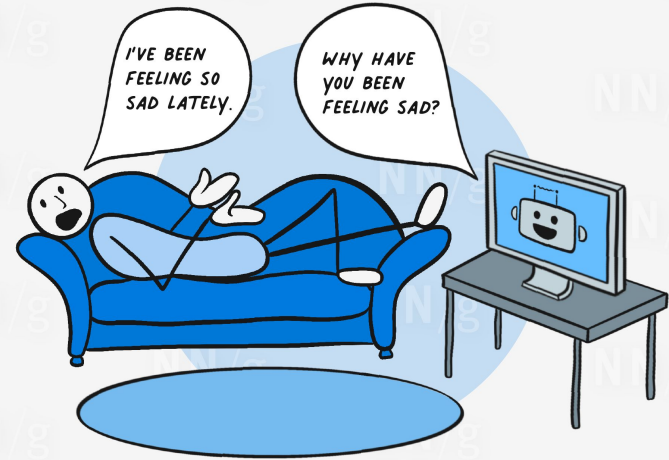
Welcome to

```
EEEEEE LL      IIII ZZZZZZZZ AAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LL      II      ZZZ  AAAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LLLLLL IIII ZZZZZZZZ AA  AA
```

Eliza is a mock Rogerian psychotherapist.
The original program was described by Joseph Weizenbaum in 1966.
This implementation by Norbert Landsteiner 2005.

```
ELIZA: Is something troubling you ?
YOU:   Men are all alike.
ELIZA: What is the connection, do you suppose ?
YOU:   They're always bugging us about something or other.
ELIZA: Can you think of a specific example ?
YOU:   Well, my boyfriend made me come here.
ELIZA: Is it important to you that your boyfriend made you come here ?
YOU:   He says I'm depressed much of the time.
ELIZA: I am sorry to hear that you are depressed.
YOU:   It's true. I am unhappy.
ELIZA: Can you explain what made you unhappy ?
YOU:   █
```

The ELIZA Effect



How to help users better calibrate their trust with AI?

- **Make clear what the system can do**
 - Disclose AI's identity
- **Make clear how well the system can do what it can do**
 - Help users understand AI's capabilities



Carefully choose the terminology and metaphor

“Look! It’s a Computer Program! It’s an Algorithm! It’s AI!”: Does Terminology Affect Human Perceptions and Evaluations of Algorithmic Decision-Making Systems?

Markus Langer
Universität des Saarlandes
Germany
markus.langer@uni-saarland.de

Tim Hunsicker
Universität des Saarlandes
Germany
tim.hunsicker@uni-saarland.de

Tina Feldkamp
Universität des Saarlandes
Germany
tina.feldkamp@uni-saarland.de

Cornelius J. König
Universität des Saarlandes
Germany
ckoenig@mx.uni-saarland.de

Nina Grgić-Hlača
Max Planck Institute for Software
Systems, Max Planck Institute for
Research on Collective Goods
Germany
nghlaca@mpi-sws.org

ABSTRACT

In the media, in policy-making, but also in research articles, algorithmic decision-making (ADM) systems are referred to as algorithms, artificial intelligence, and computer programs, amongst other terms. We hypothesize that such terminological differences can affect people’s perceptions of properties of ADM systems, people’s evaluations of systems in application contexts, and the replicability of research as findings may be influenced by terminological differences. In two studies ($N = 397$, $N = 622$), we show that terminology does indeed affect laypeople’s perceptions of system properties (e.g., perceived complexity) and evaluations of systems (e.g., trust). Our findings highlight the need to be mindful when choosing terms to describe ADM systems, because terminology can have unintended consequences, and may impact the robustness and replicability of HCI research. Additionally, our findings indicate that terminology can be used strategically (e.g., in communication about ADM systems) to influence people’s perceptions and evaluations of these systems.

CCS CONCEPTS

• Human-centered computing → Empirical studies in HCI; User studies;

KEYWORDS

Algorithmic Decision-Making Systems? In *CHI Conference on Human Factors in Computing Systems (CHI ’22)*, April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 28 pages. <https://doi.org/10.1145/3491102.3517527>

1 INTRODUCTION

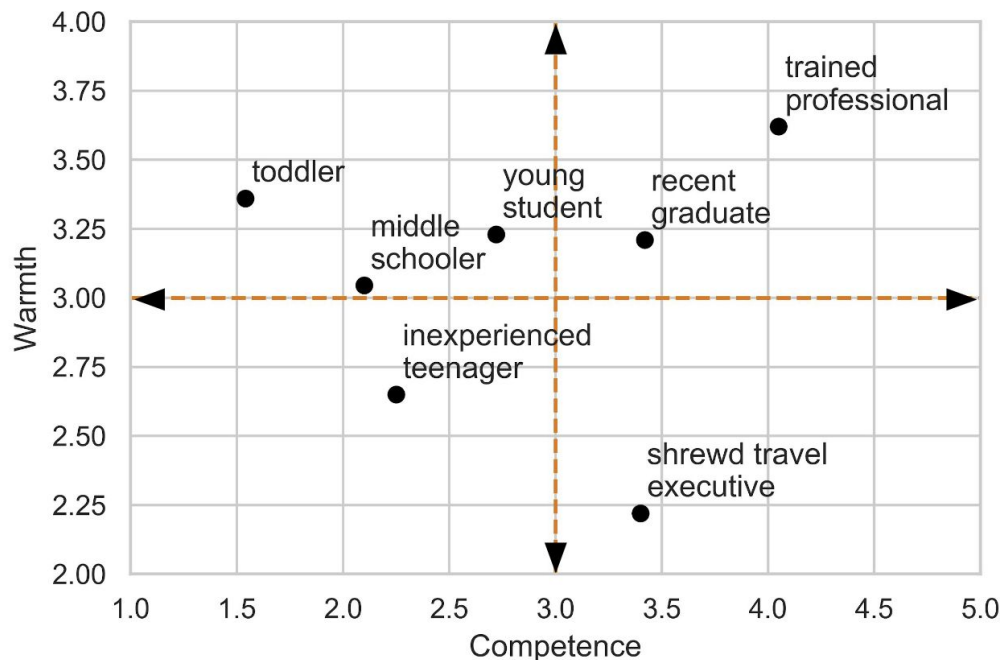
When the public discusses algorithmic decision-making systems (ADM systems) – systems that either automate decision-making or support human decision-making – when journalists report about such systems, and when policy-makers develop regulations about such systems, there is a variety of terms used to refer to them. For instance, newspaper articles refer to such systems as intelligent systems [42], as algorithms [13], or robotic systems [22]. Likewise, there is large variety in terminology used to refer to ADM systems in policy-making documents. For instance, within the European Commission’s “Ethics Guidelines for Trustworthy AI” [50], the authors refer to ADM systems as algorithms, artificial intelligence, AI technologies, AI systems, and robots whereas the General Data Protection Regulation (GDPR) refers to ADM systems as automated means.

Similar variation in the terminology used to refer to ADM systems also occurs in research investigating interactions between humans and ADM systems. In such research, researchers develop materials where they describe the respective system to their partic-

terminological differences (e.g., AI, automation, algorithm) affect

- Human perceptions of properties of assistive decision-making systems (e.g., perceived complexity)
- Human evaluations of systems (e.g., trust)

Carefully choose the terminology and metaphor



Effects of chatbot naming

Referring to AI with a specific name / metaphor has an effect on how it is perceived, and even how it is used.

Projecting **competence** may help attract new users, but those users may discard the agent unless it can quickly correct with a **lower competence metaphor**.

Encourage critical engagement with AI

> Showing Explanations and giving people agency

Turn this plate of food into a low carb meal

By replacing one of the ingredients, your goal is to make this meal a low carb meal while keeping its original flavor (as much as possible).



The main ingredients on this plate are:
chicken, beans, cherry tomato, spinach

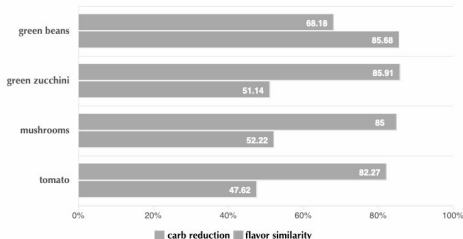
I would replace

with

Next

AI's suggestion

The AI suggested replacing **beans** with the following top 4 options by optimizing for flavor and nutrition goal:



> Showing Uncertainty

The AI is 87% confident in its suggestion

> On demand

See AI's suggestion ▼

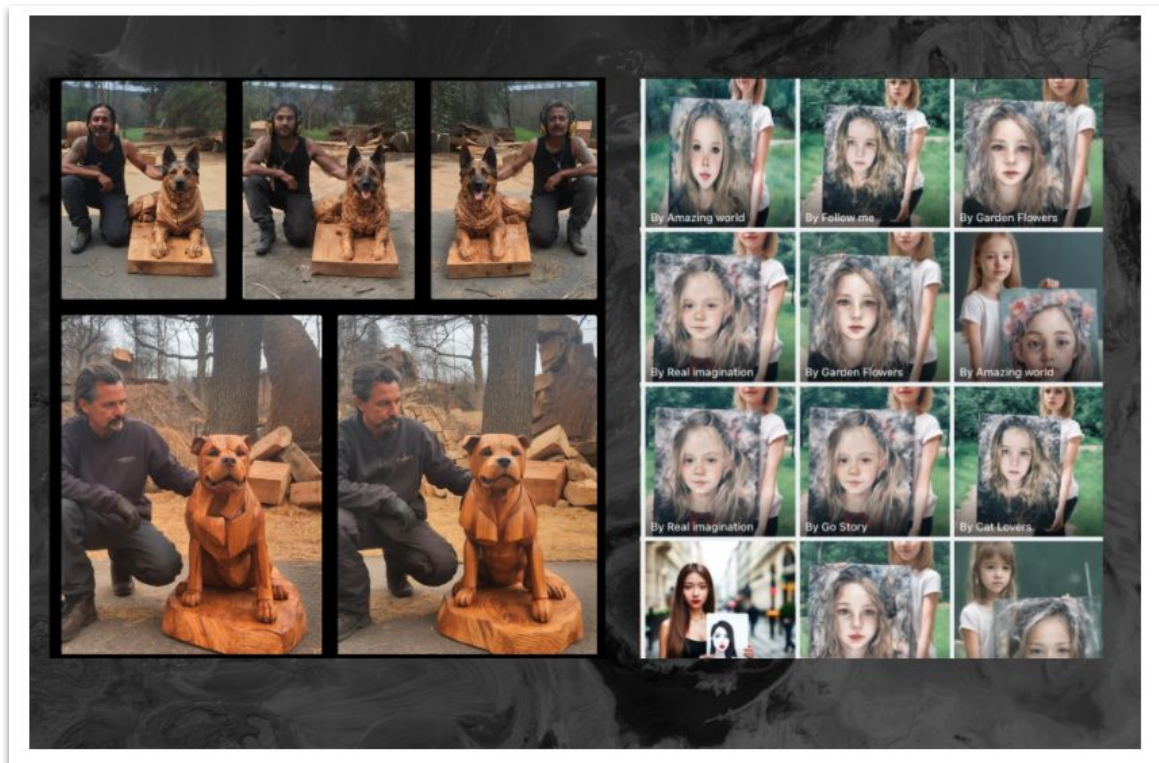
> Wait



The AI is processing the image

Buçinca, Zana, Maja Barbara Malaya, and Krzysztof Z. Gajos. "To trust or to think: cognitive forcing functions can reduce overreliance on AI in AI-assisted decision-making." Proceedings of the ACM on Human-Computer Interaction 5.CSCW1 (2021): 1-21.

AI-generated content as AI tools become more accessible



We are bad at identifying AI-generated content

AI-synthesized faces are indistinguishable from real faces and more trustworthy

Sophie J. Nightingale^{a,1} and Hany Farid^b

^aDepartment of Psychology, Lancaster University, Lancaster LA1 4YW, United Kingdom; and ^bDepartment of Electrical Engineering and Computer Sciences, University of California, Berkeley, CA 94720

Edited by William Press, Computer Sciences and Integrative Biology, University of Texas at Austin, Austin, TX; received November 11, 2021; accepted December 20, 2021

Artificial intelligence (AI)-synthesized text, audio, image, and video are being weaponized for the purposes of nonconsensual intimate imagery, financial fraud, and disinformation campaigns. Our evaluation of the photorealism of AI-synthesized faces indicates that synthesis engines have passed through the uncanny valley and are capable of creating faces that are indistinguishable—and more trustworthy—than real faces.

deep fakes | face perception

Artificial intelligence (AI)-powered audio, image, and video synthesis—so-called deep fakes—has democratized access to previously exclusive Hollywood-grade, special effects technology. From synthesizing speech in anyone's voice (1) to synthesizing an image of a fictional person (2) and swapping one person's identity with another or altering what they are saying in a video (3), AI-synthesized content holds the power to entertain but also deceive.

Generative adversarial networks (GANs) are popular mechanisms for synthesizing content. A GAN pits two neural networks—a generator and discriminator—against each other. To synthesize an image of a fictional person, the generator starts with a random array of pixels and iteratively learns to synthesize a realistic face. On each iteration, the discriminator learns to distinguish the synthesized face from a corpus of real faces; if the synthesized face is distinguishable from the real faces, then the discriminator penalizes the generator. Over multiple iterations, the generator learns to synthesize increasingly more realistic faces until the discriminator is unable to distinguish it from real faces (see Fig. 1 for example real and synthetic faces).

regression analyses were conducted—one for real and one for synthetic faces—to examine the effect of stimuli gender and race on accuracy. For real faces, there was a significant gender \times race interaction, $\chi^2(3, N = 315) = 95.03, P < 0.001$. Post hoc Bonferroni-corrected comparisons revealed that mean accuracy was higher for male East Asian faces than female East Asian faces and higher for male White faces than female White faces. For synthetic faces, there was also a significant gender \times race interaction, $\chi^2(3, N = 315) = 68.41, P < 0.001$. For both male and female synthetic faces, White faces were the least accurately classified, and male White faces were less accurately classified than female White faces. We hypothesize that White faces are more difficult to classify because they are overrepresented in the StyleGAN2 training dataset and are therefore more realistic.

Experiment 2. In this study, 219 new participants, with training and trial-by-trial feedback, classified 128 faces taken from the same 800 set of faces as in experiment 1. Shown in Fig. 2a is the distribution of participant accuracy (orange bars). The average accuracy improved slightly to 59.0% (95% CI [57.7%, 60.4%]), with no response bias: $d' = 0.46; \beta = 0.99$. Despite providing trial-by-trial feedback, there was no improvement in accuracy over time, with an average accuracy of 59.3% (95% CI [57.8%, 60.7%]) for the first set of 64 faces and 58.8% (95% CI [57.4%, 60.3%]) for the second set of 64 faces. Further analyses to examine the effect of gender and race on accuracy replicated the primary findings of experiment 1. This analysis again revealed that, for both male and female synthetic faces, White faces were the most difficult to classify.

When made aware of rendering artifacts and given feedback, there was a reliable improvement in accuracy; however, overall



BRIEF REPORT

PSYCHOLOGICAL AND COGNITIVE SCIENCES

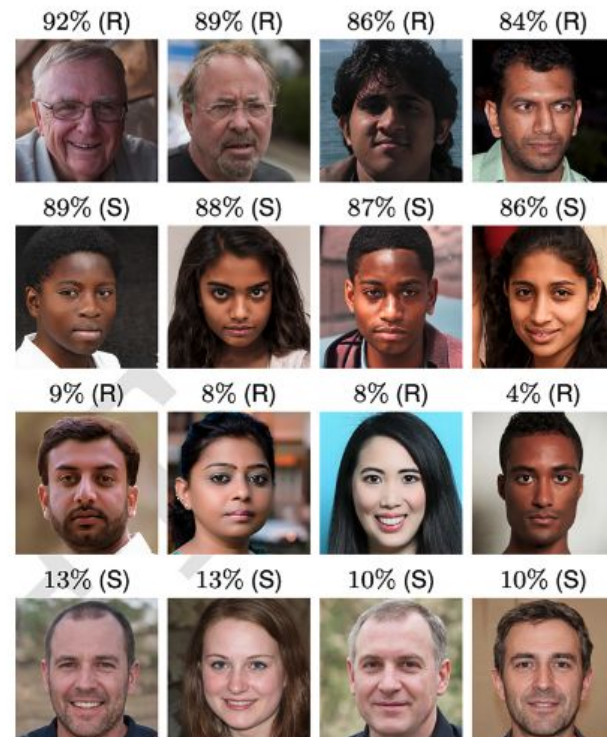


Fig. 1. The most (Top and Upper Middle) and least (Bottom and Lower Middle) accurately classified real (R) and synthetic (S) faces.

We are bad at identifying AI-generated content

PNAS

RESEARCH ARTICLE

PSYCHOLOGICAL AND COGNITIVE SCIENCES
COMPUTER SCIENCES



Human heuristics for AI-generated language are flawed

Maurice Jakesch^{AB,1}, Jeffrey T. Hancock^C, and Mor Naaman^{AB}

Edited by Timothy Wilson, University of Virginia, Charlottesville, VA; received June 29, 2022; accepted December 27, 2022

Human communication is increasingly intermixed with language generated by AI. Across chat, email, and social media, AI systems suggest words, complete sentences, or produce entire conversations. AI-generated language is often not identified as such but presented as language written by humans, raising concerns about novel forms of deception and manipulation. Here, we study how humans discern whether verbal self-presentations, one of the most personal and consequential forms of language, were generated by AI. In six experiments, participants ($N = 4,600$) were unable to detect self-presentations generated by state-of-the-art AI language models in professional, hospitality, and dating contexts. A computational analysis of language features shows that human judgments of AI-generated language are hindered by intuitive but flawed heuristics such as associating first-person pronouns, use of contractions, or family topics with human-written language. We experimentally demonstrate that these heuristics make human judgment of AI-generated language predictable and manipulable, allowing AI systems to produce text perceived as “more human than human.” We discuss solutions, such as AI accents, to reduce the deceptive potential of language generated by AI, limiting the subversion of human intuition.

human-AI interaction | language generation | cognitive heuristics | risks of AI

Large generative language models (1, 2) produce semantic artifacts closely resembling language created by humans. Through applications like smart replies, writing autocompletion, grammatical assistance, and machine translation, AI-enabled systems infuse human communication with generated language at a massive scale. Large language models like OpenAI’s GPT-3 and AI language applications like ChatGPT (1, 2) produce coherent writing pieces and generate entire conversations. AI-generated language enables novel interactions that reduce human effort but can facilitate novel forms of plagiarism, manipulation, and deception (1, 3–8) when people mistake AI-generated language for language created by humans.

In a series of experiments, we analyzed how humans detect AI-generated language in one of the most personal and consequential forms of speech—verbal self-presentation. Self-presentation refers to behaviors designed to control impressions of the self by others (9), while verbal self-presentation focuses on the words used to accomplish impression management. In this work, we operationalize self-presentation as self-descriptions of the type prevalent in online profiles (10), e.g., on professional or dating platforms. Researchers have extensively studied the importance of online self-presentation (11–13), showing that

Significance

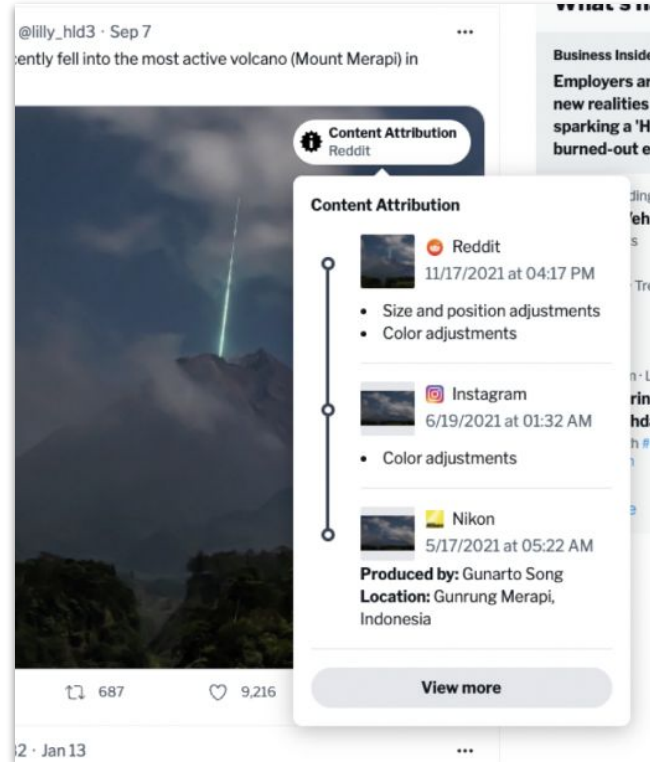
Human communication is now rife with language generated by AI. Every day, across the web, chat, email, and social media, AI systems produce billions of messages that could be perceived as created by humans. In this work, we analyze human judgments of self-presentations written by humans and generated by AI systems. We find that people cannot detect AI-generated self-presentations as their judgment is misguided by intuitive but flawed heuristics for AI-generated language. We demonstrate that AI systems can exploit these heuristics to produce text perceived as “more human than human.” Our results raise the question of how humanity will adapt to AI-generated text, illustrating the need to reorient the development of AI language systems to ensure that they support rather than undermine human cognition.

Across AirBnB listings, online dating profiles, and LinkedIn profiles, **people cannot distinguish text written by LLMs** (e.g., GPT) from those written by people.

AI systems can exploit these heuristics on what we think is human to produce text perceived as “**more human than human.**”

How to help people calibrate their trust?

Provenance can indeed help people better calibrate trust and accuracy perceptions of media.



Poster & pitch work time