

How AI is Trained

The Problems It Causes &
The Implications for Use



How it's trained

The problems this
makes

What you do about it

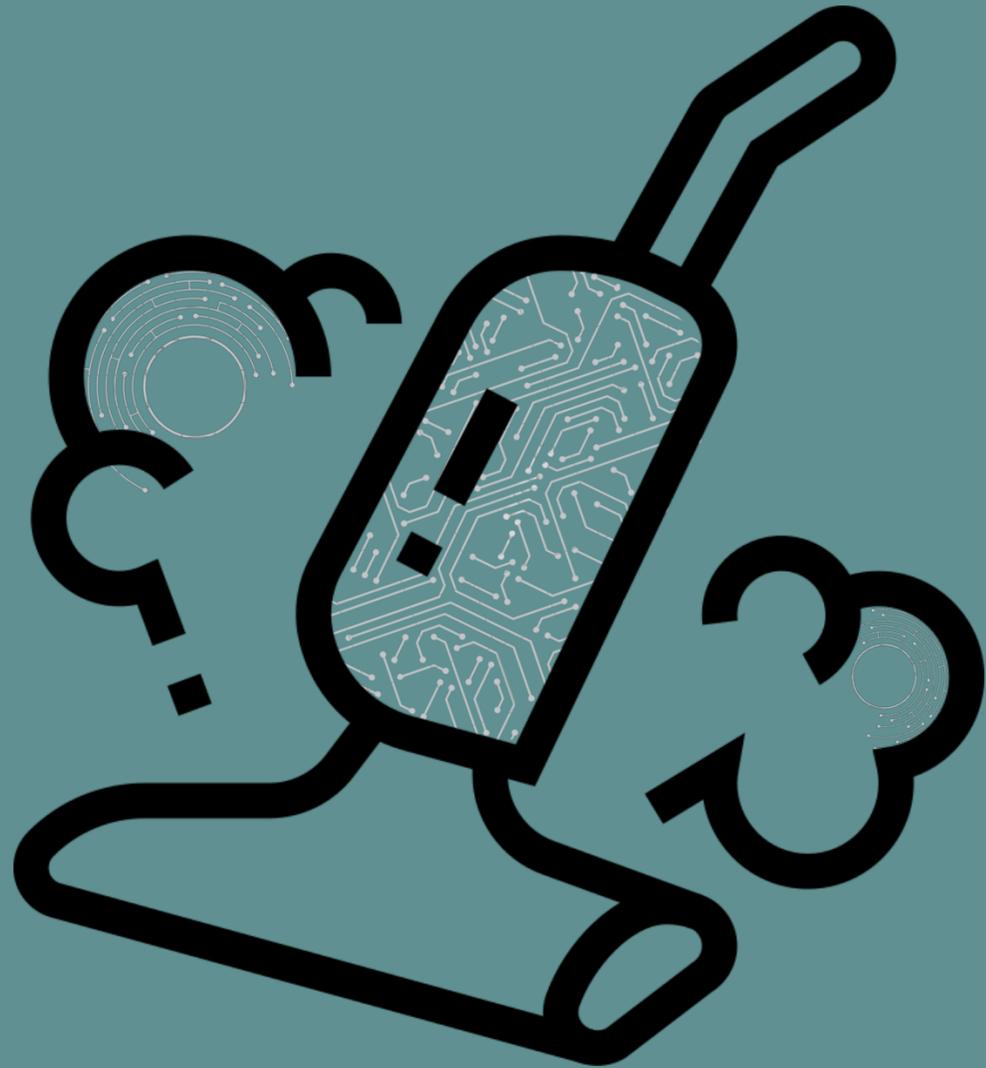


Outputs

- Precise matching vs 'creative' generation
- Inaccuracy as a problem vs as a goal
- Guardrails and tweaks



Where the data comes from



- Created for purpose vs scraped from the internet
- Copyright and ethical issues
- Oversight

Issues from the data

- Bad datasets
- Biased datasets
- Difficulty with ambiguity
- Doesn't have real world knowledge



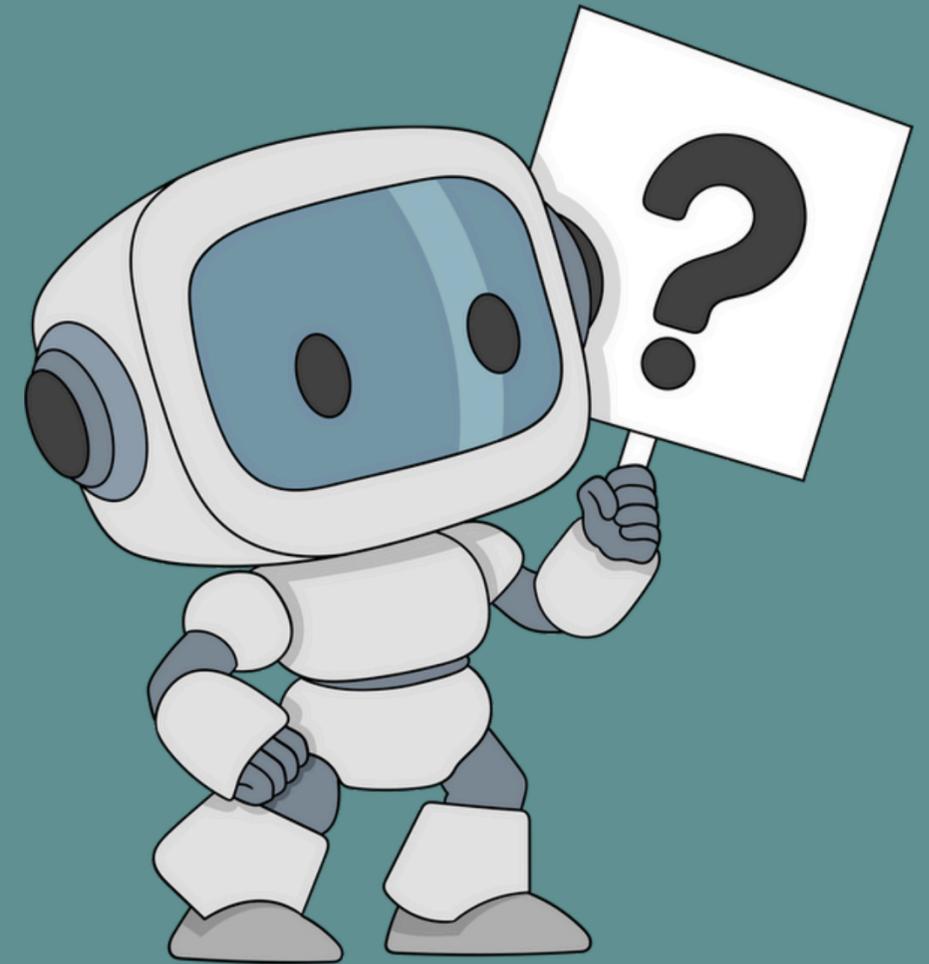
Issues from the programmers



- Badly designed guardrails
- Badly designed tweaks
- Bias in guardrails

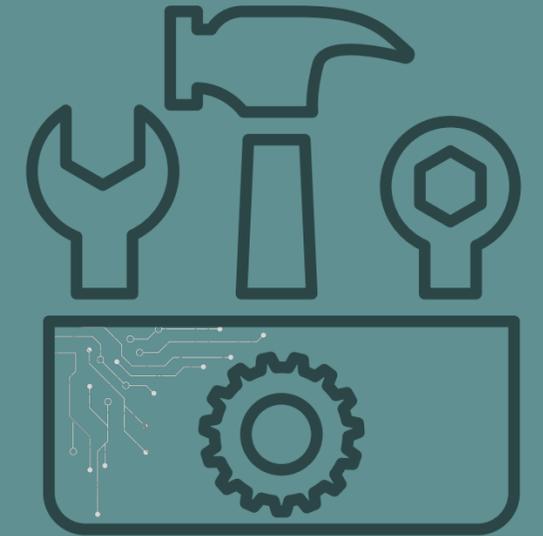
Hallucinations

- Misnomer
- Generative AI is designed to invent stuff
- Patterns in the dataset we are blind to
- Lack of understanding



Use the right tools for the job

- Math - Wolfram Alpha
- Citations and articles - LibMaps
- Summaries of books - SparkNotes
- Grammar and spelling - Grammarly
- Idea generation and starting points for writing
- ChatGPT



Prompts



- Be as specific as possible
- Be as unambiguous as possible
- Be as detailed as possible
- Use standardized English
- Generative AI is designed to not behave reliably

Learn More



Any questions?

<https://research.auctr.edu/AIclassroom>

Please reach out to the AUC Woodruff
Library at **askref@auctr.edu**.