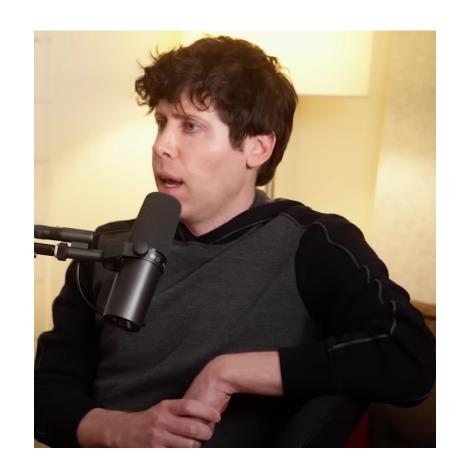


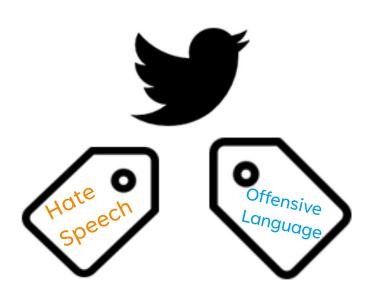
Stephanie Eckman

Christoph Kern, Jacob Beck, Bolei Ma, Rob Chew, Frauke Kreuter "The bias I am most nervous about is the bias of the human feedback raters"

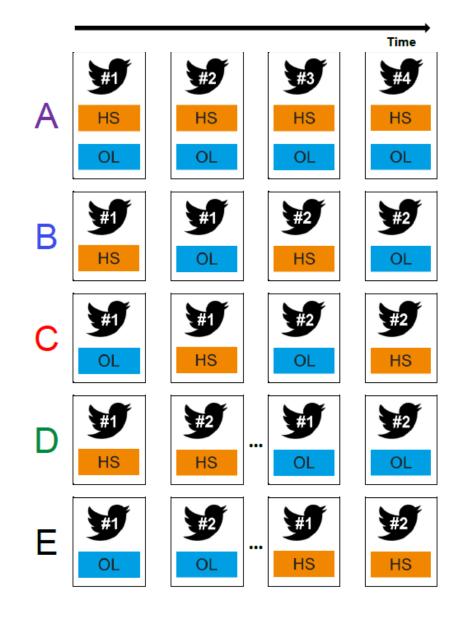
Sam Altman
March 25 2023 "The Lex Fridman Podcast"



## **RESEARCH DESIGN**



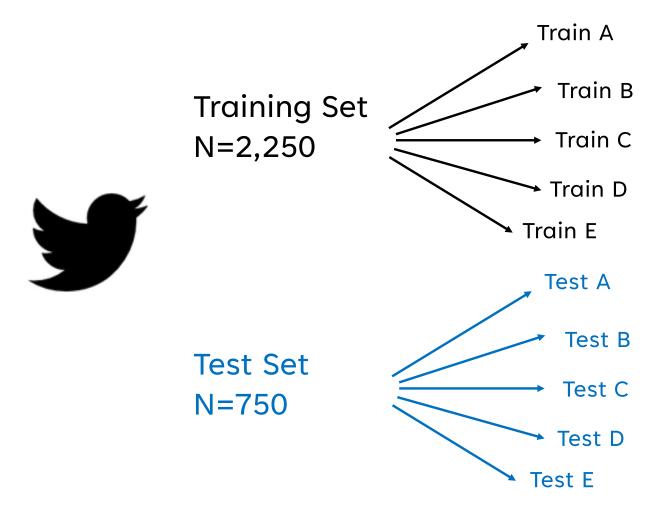
Conditions



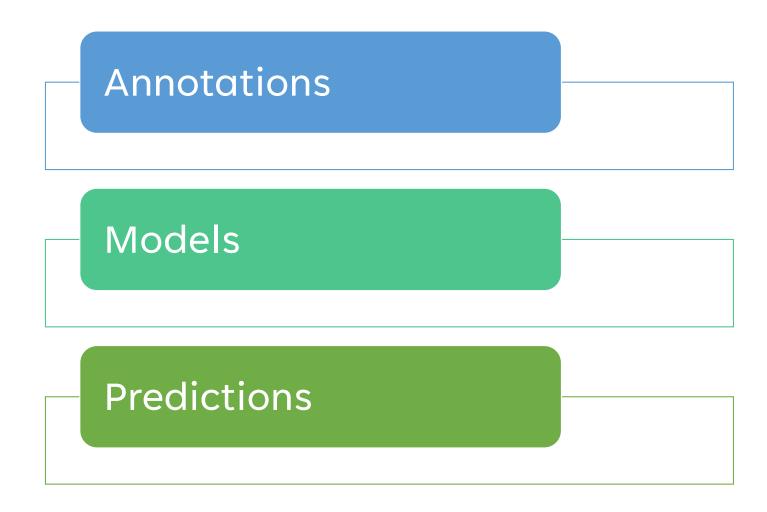
### DATA COLLECTION

- 3000 tweets (Davidson et al 2017)
- •~900 annotators from Prolific (Nov-Dec 2022)
- 50 tweets / annotator
- 3 annotations / tweet condition
- 15 total annotations / tweet

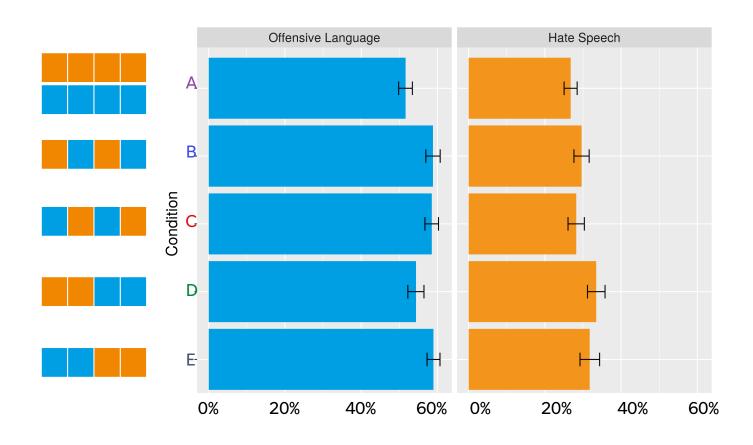
## **MODEL TRAINING**



## **3 TYPES OF RESULTS**

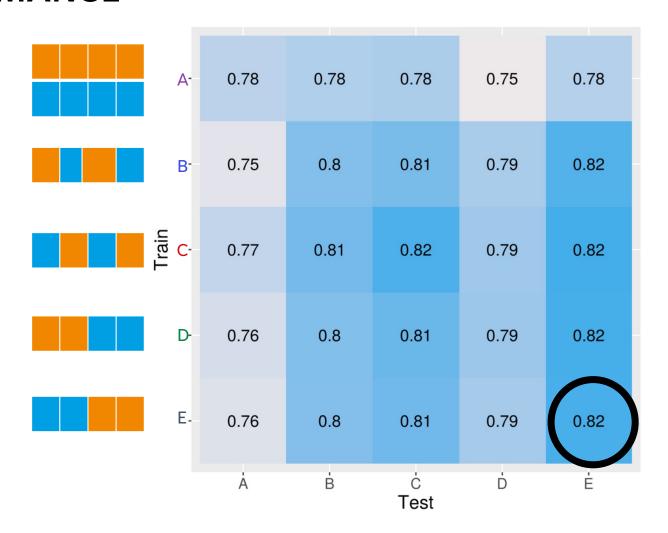


# **ANNOTATIONS**



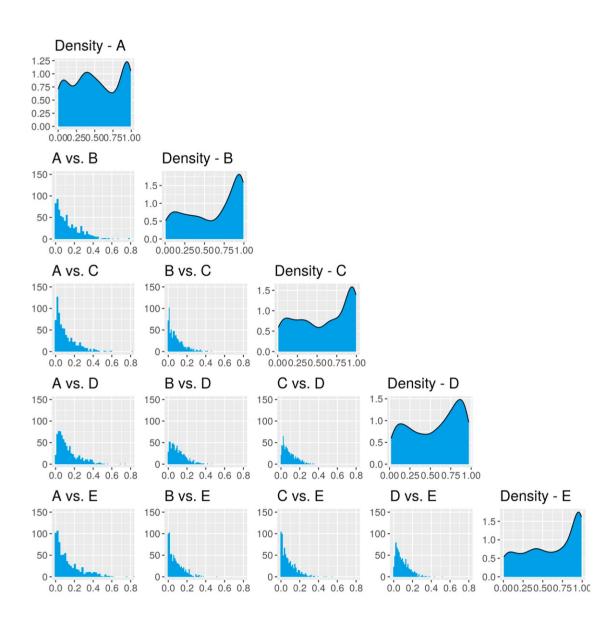
### **MODEL PERFORMANCE**

- BERT models of offensive language
- Number shown is balanced accuracy



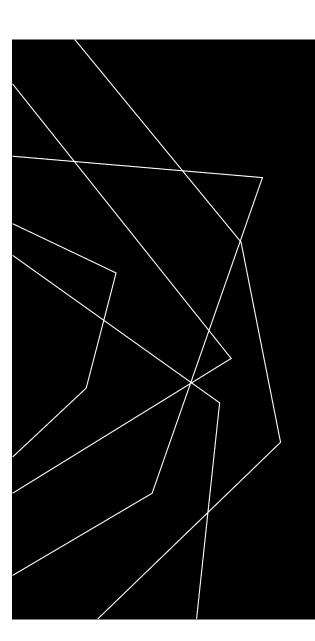
### **PREDICTIONS**

- Diagonal:
  - distribution of annotations by conditions
- Off-diagonal:
  - Absolute difference of predictions



### **TAKEAWAYS**

- How you collect annotations matters
  - for labels, models, predictions
- Some conditions perform better/worse as train/test data
  - More research needed to inform best practices
- Some evidence of fatigue
  - Fewer offensive speech labels in Condition D
- Fewer hate speech labels in Condition E



# THANK YOU

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