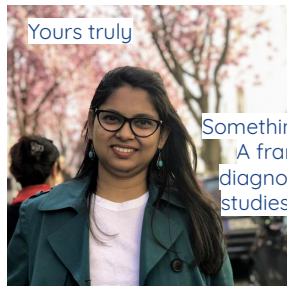
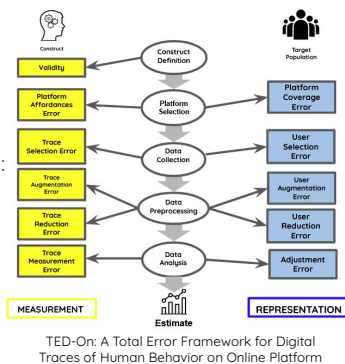


Indira Sen: In a nutshell



Something I worked on:
A framework for
diagnosing errors in
studies using digital
traces



Current but soon-to-be previous life: Ph.D

Student in Computational Social Science@GESIS,
RWTH-Aachen

Thesis: “Measuring social constructs with textual
digital traces and computational methods”

Core Competencies:

- Applied Machine Learning
- Natural Language Processing (NLP)

Areas of Interest:

- Measuring and Mitigating **Harmful Communication Online** (hate speech, harassment, misinformation)
- Designing computational methods for analyzing digital traces (social media and web content)
- Political attitudes and discussions

If you're curious about my work, here are the [slides](#) from a recent talk

My work

Postdoc

Computational Social Science + NLP

Measuring **social constructs** (attitudes and behaviors)
with computational methods



Mental Health



Sexism



Hate speech

Related project 1: Measuring workplace depression from company reviews w/ LMs



Review p

'I was tired frequently.'



survey item i

'I felt exhausted...'

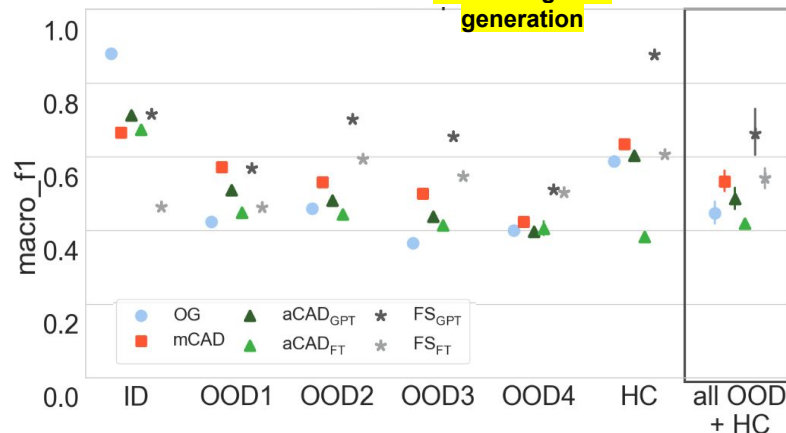
Sentence-BERT

Related project 2: Using LLMs
to detect **sexism** and **hate speech**

RoBERTa for
classification

chatGPT and Flan T5
for **few-shot labeling**

chatGPT and Flan T5
for **training data generation**



Next: Auditing LLMs? Human-LLM interaction?