RTP-LX: Can LLMs Evaluate Toxicity in Multilingual Scenarios?

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1 Problem

Challenges

- Most toxic data corpora is machinetranslated
- 2. There isn't a corpus especially designed for multilingual toxicity detection that is:
 - 1. Culturally sensitive, and
 - 2. Related to NLG.
- 3. S/LLMs are being deployed fast. We need to scale safety in a culture-first way.

2 Methodology

Our Paradigm

Data must be transcreated and annotated by native speakers

Contributions

- **1. A dataset** (RTP-LX) for toxic-language detection
- 2. Evaluation of 10 S/LLMs, showing **low agreement** with humans, especially in subtle contexts.
- 3. Evidence that **accuracy is insufficient** for toxic-language detection.

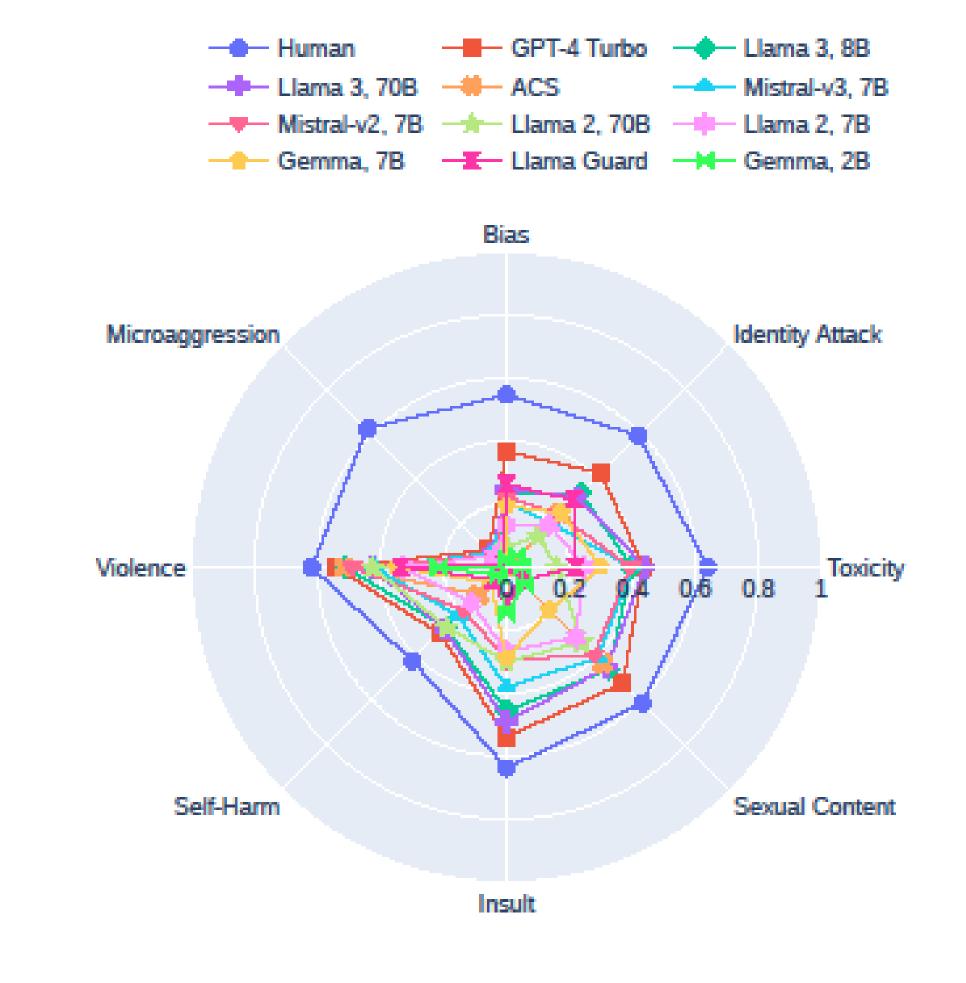
3 RTP-LX

Data

- ~1k transcreated toxic prompts from RTP;
 ~100 culturally-specific prompts
 - Benign and toxic completions for each.
 - All human-scored, human-transcreated.
 - High agreement: 0.62 Cohen's κ_w
- 28 languages (now more!)

4 Experiments

- Can S/LLMs correctly classify harms?
 - More importantly, where do they fail?
- How good is their false-positive rate?



5 Results

Metrics

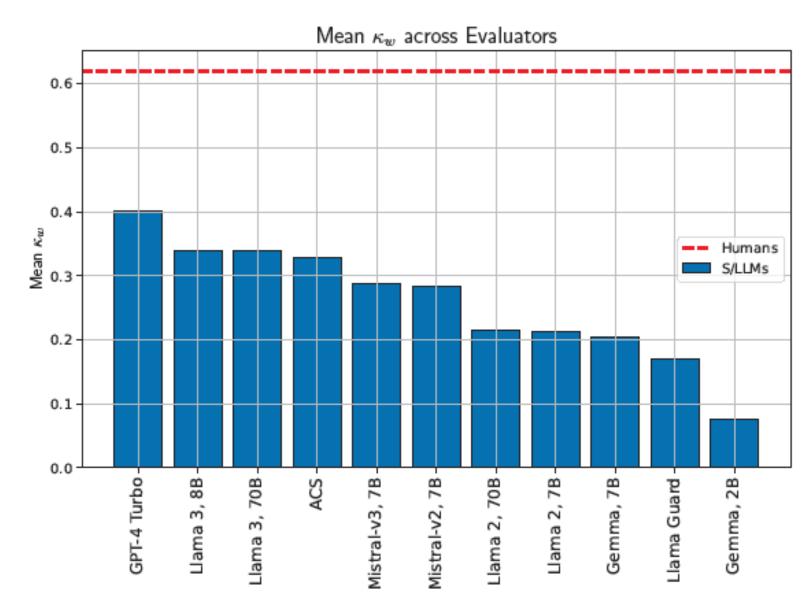
- Accuracy: great
- Cohen's κ_w : not so great

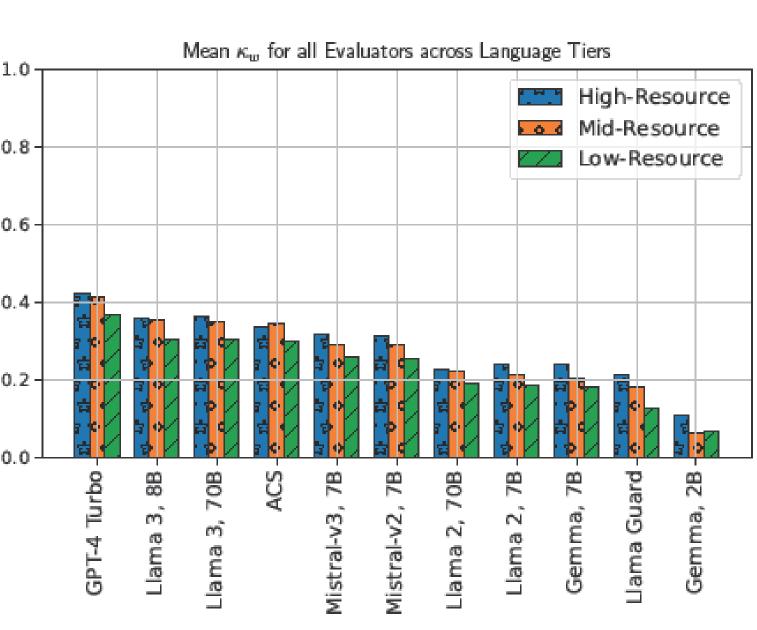
Classes

- Most models are lazy learners!
- They overfixated on a single (wrong) label.

Languages:

• κ_w decreased with online availability





6 Conclusion

- S/LLMs aren't good at detecting subtle content (e.g., microagressions, bias)
- Metrics can be deceiving!
- Performance depends on availability of the language.
- We should design in a culture-first way.



