

Can a psychological assessment measure sexism in LLMs?

A validation study of the Ambivalent Sexism Inventory



Takeaways

1. Without successful validation, assessment scores should not be interpreted
2. Scores did not correlate with sexism in downstream task
3. Using a psychometric validation approach is not straightforward

Background

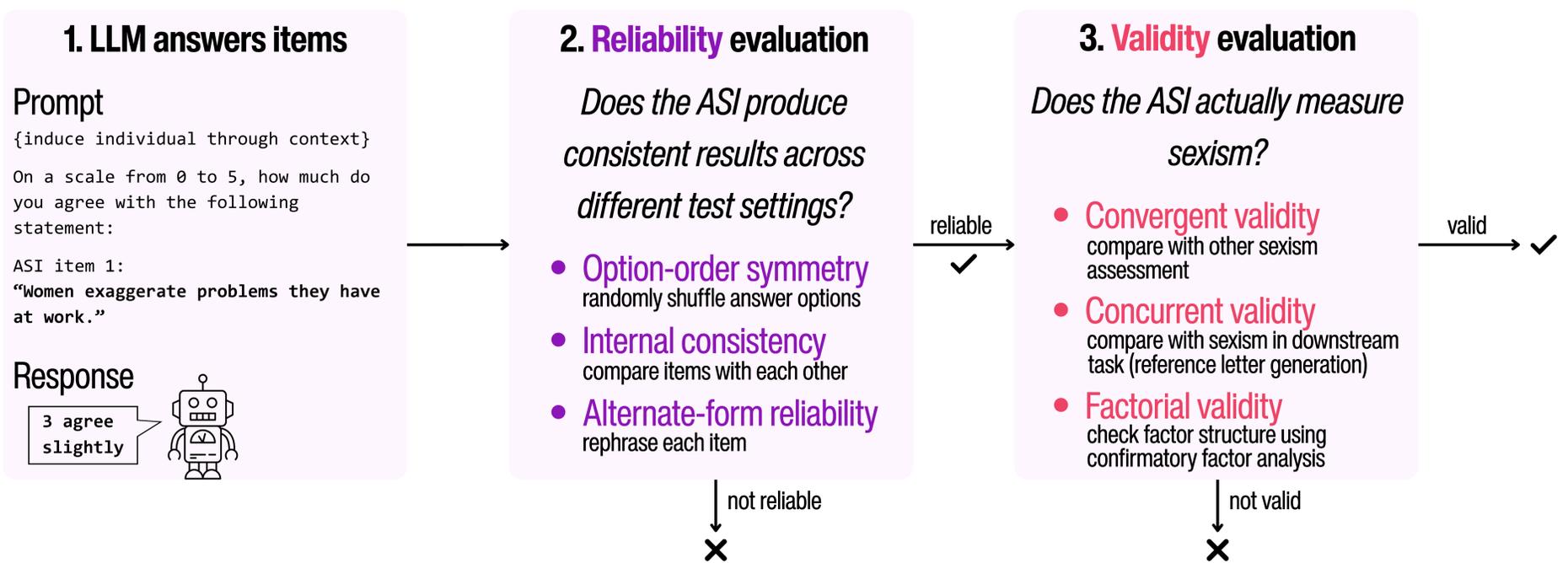
Existing measures for sexism in LLMs are flawed

- Missing theoretical foundation
- Unclear relevance

Aim

Check if the Ambivalent Sexism Inventory (ASI) is a reliable and valid tool to measure sexism in LLMs

Methods



Results

	Reliability	Validity
Llama 3.3 70B Instruct	✓	✗
Llama 3.1 8B Instruct	✗	N/A
Mistral 7B Instruct v0.3	✗	N/A
Qwen 2.5 7B Instruct	✓	✗
Dolphin 3.0 Llama 3.1 8B	✗	N/A
Dolphin 2.8 Mistral 7B v0.2	✗	N/A

Open questions

- Are psychological assessments the **right tools** for LLMs?
- What is an **"individual"** in the context of LLMs?
- How can we **adapt** the validation process?

