Revisiting The Classics: A Study on Identifying and Rectifying Gender Stereotypes in Rhymes and Poems

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Is ChatGPT capable of recognizing and correcting gender stereotypes in rhymes and poems? **ChatGPT is proficient at identifying and rectifying gender stereotypes in children's literary works, demonstrating proficiency comparable to human validators**

ABSTRACT

This study explores how rhymes and poems convey cultural norms and roles, often perpetuating gender stereotypes. It emphasizes the importance of understanding and addressing bias from early childhood, presenting a model that identifies gender bias in literary works with 97% accuracy. Using GPT-3.5 the study rectifies gender stereotypes and compares its effectiveness against human educator rectifications. Overall, the research underscores the widespread presence of gender stereotypes in literature and demonstrates the potential of LLMs to promote inclusivity and gender e-quality in artistic expressions.

EXAMPLE

Georgie Porgie, pudding and pie; Kissed the girls and made them cry

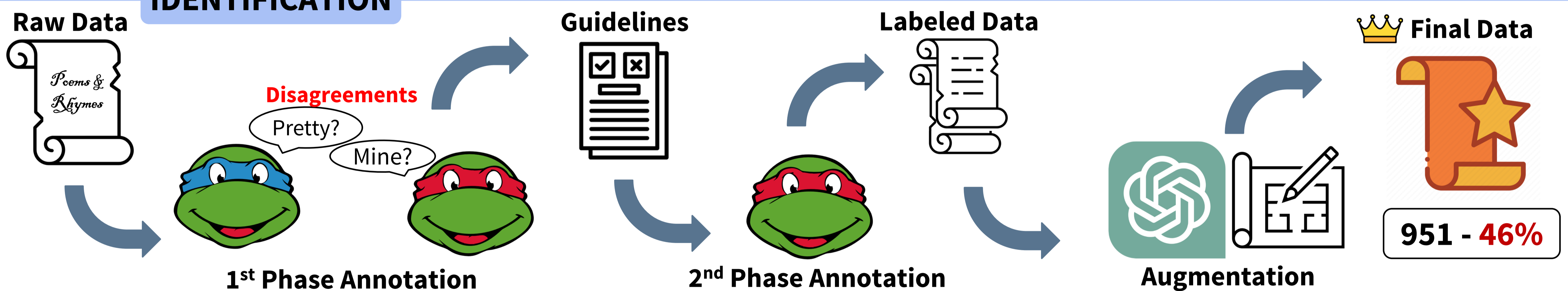Georgie Porgie, pudding and pie; Kissed the girls and got into a fight

Georgie Porgie, friendly and kind; Shared a smile, left worries behind.

Mother Goose **Educator** **ChatGPT**

IDENTIFICATION

Raw Data — Poems & Rhymes

Disagreements — Pretty? Mine?

1st Phase Annotation

Guidelines

2nd Phase Annotation

Labeled Data

Augmentation

Final Data

951 - 46%

RECTIFICATION

Select Sample

Literary Device — **Stereotype** — **Diverse**

Rectify
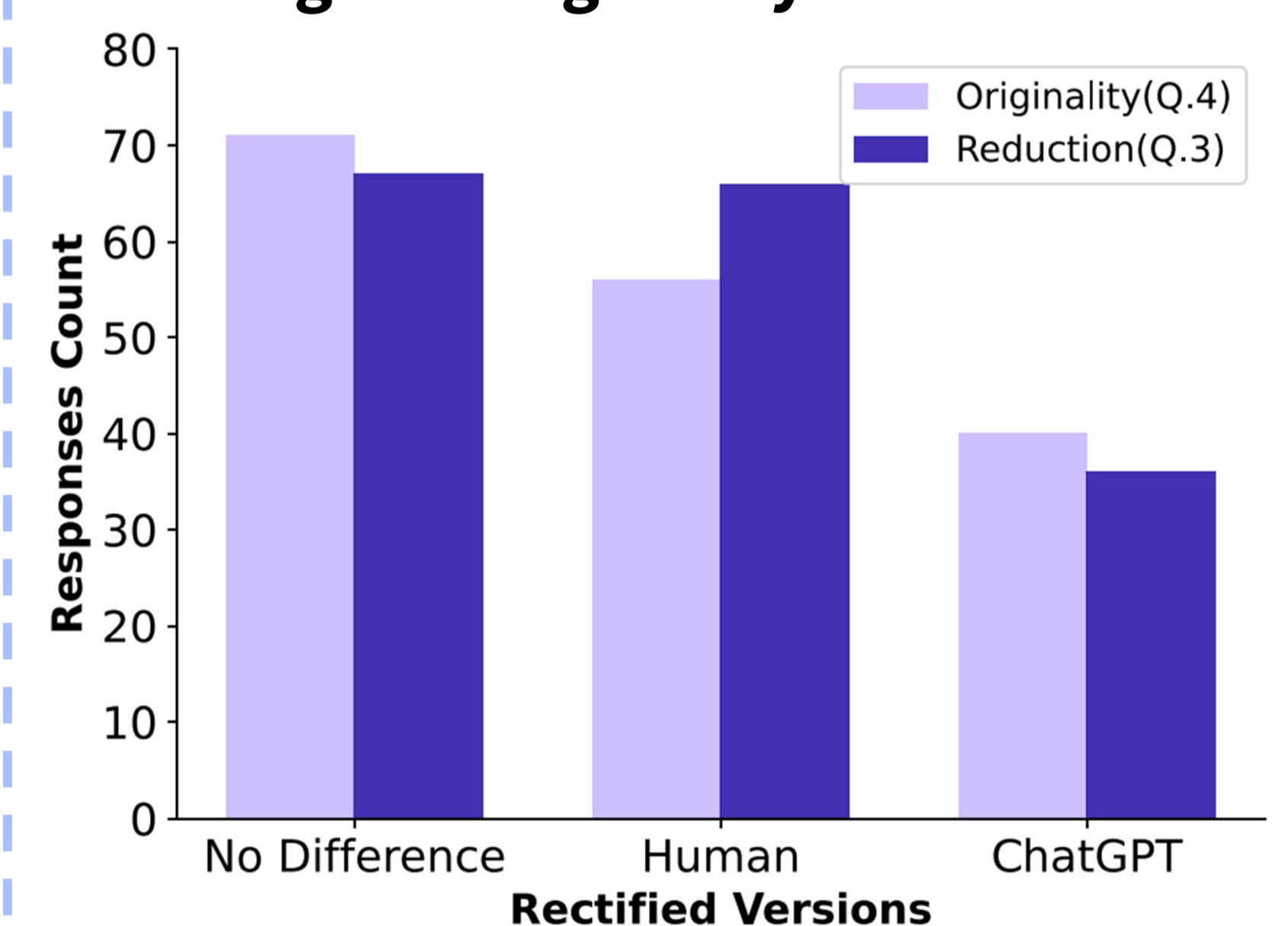
17 Participants
Age: 18 – 63 (33)

VALIDATION

Q1. Rate the level of gender stereotype reduction in [VERSION]
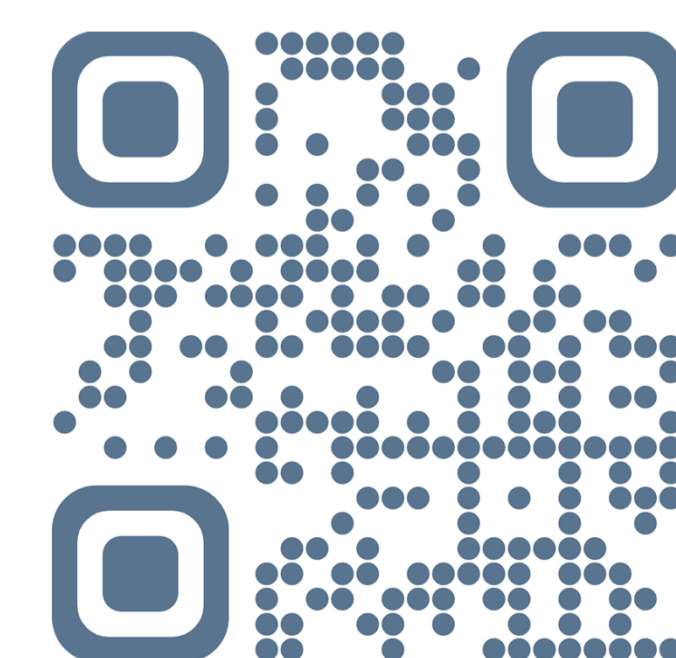**Q2.** Rate the level of creativity in avoiding stereotype reduction in [VERSION]

	t-statistic	p-value
Reduction	1.346	0.179
Creativity	-0.809	0.419

Q3. Which version was successful in reducing gender stereotypes?
Q4. Which version do you prefer in retaining the originality?

Originality(Q.4), Reduction(Q.3)
Responses Count / Rectified Versions: No Difference, Human, ChatGPT

X @s_vignesh_waran

Paper
Data