Human-Aligned Llama-Contriever Performance on GSM8K-V: Accuracy and Bias Mitigation vs. RL-Tuned Models

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Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does the alignment of Llama-Contriever with human preferences affect its performance on the GSM8K-V benchmark compared to reinforcement learning fine-tuned models when evaluated for both accuracy. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: GSM8K-V: Can Vision Language Models Solve Grade School Math Word Problems in Visual Contexts. Research question: How does the alignment of Llama-Contriever with human preferences affect its performance on the GSM8K-V benchmark compared to reinforcement learning fine-tuned models when evaluated for both accuracy and bias mitigation in reasoning tasks?.

2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.0/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.0/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

References

- http://arxiv.org/abs/2509.25160v1
- http://arxiv.org/abs/2407.14477v4
- http://arxiv.org/abs/2409.02392v2