

Multimodal Language Models with Verbal and Non-Verbal Rewards in Cross-Domain Code Generation

Assignee Research

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Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: Can multimodal language models trained with combined verbal and non-verbal reward signals maintain their pass@k scores when evaluated on cross-domain code generation benchmarks. In natural human-to-human conversations, participants often receive feedback signals from one another based on their follow-up reactions. These reactions can include verbal responses, facial expressions, changes in emotional state, and other non-verbal cues. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Aligning Language Models Using Follow-up Likelihood as Reward Signal. Research question: Can multimodal language models trained with combined verbal and non-verbal reward signals maintain their pass@k scores when evaluated on cross-domain code generation benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

14 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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/2409.13948v3>
- <http://arxiv.org/abs/2507.21391v2>
- <http://arxiv.org/abs/2510.11852v1>