

Scaling Laws and Reasoning Errors in Open-Source vs Proprietary Multimodal Code Generation

Assignee Research

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Abstract

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: What is the correlation between model size and reasoning error rates in open-source versus proprietary multimodal models when evaluated on code generation benchmarks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: LogicVista: Multimodal LLM Logical Reasoning Benchmark in Visual Contexts. Research question: What is the correlation between model size and reasoning error rates in open-source versus proprietary multimodal models when evaluated on code generation benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 10 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.7/10.

3 Results

10 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.7/10.

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/2510.11852v1>
- <http://arxiv.org/abs/2303.12869v1>
- <http://arxiv.org/abs/2407.04973v1>