

Robustness Gaps in R1-7B Diagram Interpretation vs. Text-Only Coding Performance

Assignee Research

June 6, 2026

Abstract

This report synthesises findings from 8 peer-reviewed papers addressing the following research question: Do R1-7B’s diagram interpretation capabilities exhibit robustness gaps compared to its text-only coding performance when evaluated on MMBench or SEED-Bench multimodal 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 5.3/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Creation-MMBench: Assessing Context-Aware Creative Intelligence in MLLM. Research question: Do R1-7B’s diagram interpretation capabilities exhibit robustness gaps compared to its text-only coding performance when evaluated on MMBench or SEED-Bench multimodal benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 8 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.3/10.

3 Results

8 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.3/10.

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/2311.17092v1>
- <http://arxiv.org/abs/2503.14478v2>
- <http://arxiv.org/abs/2307.16125v2>