

Phi-3-Mini and Mistral-7B Performance on Multilingual GSM-Symbolic Benchmarks

Assignee Research

June 6, 2026

Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How does the performance of Phi-3-mini and Mistral-7B-v0.1 compare on GSM-Symbolic instances across non-English languages when fine-tuned with language-specific data versus the original MGSM dataset. 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: Differentially Private Fine-tuning of Language Models. Research question: How does the performance of Phi-3-mini and Mistral-7B-v0.1 compare on GSM-Symbolic instances across non-English languages when fine-tuned with language-specific data versus the original MGSM dataset?.

2 Methodology

Systematic literature search across multiple databases yielded 11 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

11 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/2602.09439v1>
- <http://arxiv.org/abs/2402.13016v1>
- <http://arxiv.org/abs/2110.06500v2>