

Instruction Finetuning with Chain-of-Thought Data and Multilingual Robustness in OOD Reasoning

Assignee Research

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Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: How does instruction finetuning with chain-of-thought data affect the robustness of multilingual language models on out-of-distribution reasoning tasks across different language pairs. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Evaluating the Limits of Large Language Models in Multilingual Legal Reasoning. Research question: How does instruction finetuning with chain-of-thought data affect the robustness of multilingual language models on out-of-distribution reasoning tasks across different language pairs?.

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 6.0/10.

3 Results

14 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.0/10.

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/2506.15415v1>
- <http://arxiv.org/abs/2410.03595v1>
- <http://arxiv.org/abs/2509.22472v1>