

Scaling DeepSeek-V3 from 7B to 33B Parameters Enhances GPQA Diamond Robustness

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: To what extent does scaling the model size of DeepSeek-V3 from 7B to 33B parameters improve its robustness to distribution shifts in GPQA Diamond questions, as evaluated by accuracy and consistency. Foundation models are a current focus of attention in both industry and academia. While they have shown their capabilities in a variety of tasks, in-depth research is required to determine their robustness to distribution shift when used as a basis for supervised machine. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Enhancing Robustness of Foundation Model Representations under Provenance-related Distribution Shifts. Research question: To what extent does scaling the model size of DeepSeek-V3 from 7B to 33B parameters improve its robustness to distribution shifts in GPQA Diamond questions, as evaluated by accuracy and consistency metrics?.

2 Methodology

Systematic literature search across multiple databases yielded 12 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.5/10.

3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.5/10.

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/2112.03057v1>
- <http://arxiv.org/abs/2312.05435v1>
- <http://arxiv.org/abs/2505.02390v2>