

Integration Of Domain-Specific Retrieval Augmentation Improve The Reasoning Accuracy Of 7B Vs. 13B Models On The Medqa

Assignee Research

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Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: Does the integration of domain-specific retrieval augmentation improve the reasoning accuracy of 7B vs. 13B models on the MedQA benchmark, and how does this scale with dataset size. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 2.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Blended RAG: Improving RAG (Retriever-Augmented Generation) Accuracy with Semantic Search and Hybrid Query-Based Retrievers. Research question: Does the integration of domain-specific retrieval augmentation improve the reasoning accuracy of 7B vs. 13B models on the MedQA benchmark, and how does this scale with dataset size?.

2 Methodology

Systematic literature search across multiple databases yielded 16 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 2.7/10.

3 Results

16 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 2.7/10.

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/2404.07220v2>
- <http://arxiv.org/abs/2510.25621v1>
- <http://arxiv.org/abs/2402.12317v2>