

Impact of Document Corpus Size on Blended RAG Performance in Sub-10B Parameter Models

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: What is the impact of document corpus size on the accuracy and latency of Blended RAG with hybrid retrievers for sub-10B parameter models, evaluated on the ELI5 benchmark. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.2/10. 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: What is the impact of document corpus size on the accuracy and latency of Blended RAG with hybrid retrievers for sub-10B parameter models, evaluated on the ELI5 benchmark?.

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 5.2/10.

3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.2/10.

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/2409.08479v2>
- <http://arxiv.org/abs/2604.00715v1>