Block-Sparse FlashAttention and Sliding Window Attention in Long-Context Retrieval Accuracy

Assignee Research

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Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: Does Block-Sparse FlashAttention preserve retrieval accuracy on the RAGBench dataset compared to sliding window attention mechanisms for contexts over 32k tokens. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Block Sparse Flash Attention. Research question: Does Block-Sparse FlashAttention preserve retrieval accuracy on the RAGBench dataset compared to sliding window attention mechanisms for contexts over 32k tokens?.

2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.7/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.7/10.

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/2512.07011v1
- http://arxiv.org/abs/2512.10411v5
- http://arxiv.org/abs/2407.11005v2