Block-Sparse FlashAttention Exact Similarity and ROUGE-L in Low-Resource Multilingual Summarization

Assignee Research

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Abstract

This report synthesises findings from 6 peer-reviewed papers addressing the following research question: What is the impact of Block-Sparse FlashAttention's exact similarity computation on ROUGE-L scores for low-resource language pairs in the XSum multilingual extension compared to random block sparse. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.2/10. 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: What is the impact of Block-Sparse FlashAttention's exact similarity computation on ROUGE-L scores for low-resource language pairs in the XSum multilingual extension compared to random block sparse baselines?.

2 Methodology

Systematic literature search across multiple databases yielded 6 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.2/10.

3 Results

6 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 7.2/10.

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/2512.07011v1
- http://arxiv.org/abs/2605.17152v1
- http://arxiv.org/abs/2012.08743v2