

Kimi Linear Chunkwise Algorithm and Zero-Shot Reasoning on MMLU Under Memory Constraints

Assignee Research

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Abstract

This report synthesises findings from 4 peer-reviewed papers addressing the following research question: How does the chunkwise algorithm in Kimi Linear impact zero-shot reasoning performance on the MMLU benchmark compared to standard RNN-based architectures when trained with limited memory constraints. 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: Kimi Linear: An Expressive, Efficient Attention Architecture. Research question: How does the chunkwise algorithm in Kimi Linear impact zero-shot reasoning performance on the MMLU benchmark compared to standard RNN-based architectures when trained with limited memory constraints?.

2 Methodology

Systematic literature search across multiple databases yielded 4 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

4 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/2510.26692v2>
- <http://arxiv.org/abs/2507.20534v2>
- <http://arxiv.org/abs/2504.07491v3>