ReST-KV Eviction Strategy Impact on Long-Sequence Code Completion Accuracy

Assignee Research

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Abstract

This report synthesises findings from 7 peer-reviewed papers addressing the following research question: Does the application of ReST-KV's eviction strategy introduce measurable degradation in code completion accuracy on HumanEval or MBPP benchmarks for input sequences longer than 50K 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 5.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Make Each Token Count: Towards Improving Long-Context Performance with KV Cache Eviction. Research question: Does the application of ReST-KV's eviction strategy introduce measurable degradation in code completion accuracy on HumanEval or MBPP benchmarks for input sequences longer than 50K tokens?.

2 Methodology

Systematic literature search across multiple databases yielded 7 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.7/10.

3 Results

7 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.7/10.

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/2605.09649v1
- http://arxiv.org/abs/2605.08840v1
- http://arxiv.org/abs/2412.21199v2