

# Chunking Strategy Effects on Retrieval Accuracy in Gemini 1.5 Long-Context Benchmarks

Assignee Research

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## Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: What is the impact of chunking strategies on the retrieval accuracy of Gemini 1.5 Flash and Gemini 1.5 Pro in long-context benchmarks like LongBench or RefSeq. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Gemini 1.5: Unlocking multimodal understanding across millions of tokens of context. Research question: What is the impact of chunking strategies on the retrieval accuracy of Gemini 1.5 Flash and Gemini 1.5 Pro in long-context benchmarks like LongBench or RefSeq?.

## 2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.8/10.

## 3 Results

14 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.8/10.

## 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/2103.16669v3>
- <http://arxiv.org/abs/2202.00373v2>
- <http://arxiv.org/abs/2403.05530v5>