

Retrieval-Augmented Generation Enhances Mistral 7B Robustness in Adversarial Time-Series Tasks

Assignee Research

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Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: To what extent does retrieval-augmented generation improve the robustness of Mistral 7B against adversarial perturbations in time-series data compared to instruction-tuned variants. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Riddle Me This! Stealthy Membership Inference for Retrieval-Augmented Generation. Research question: To what extent does retrieval-augmented generation improve the robustness of Mistral 7B against adversarial perturbations in time-series data compared to instruction-tuned variants?.

2 Methodology

Systematic literature search across multiple databases yielded 16 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.8/10.

3 Results

16 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.8/10.

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/2509.12382v1>
- <http://arxiv.org/abs/2502.00306v2>
- <http://arxiv.org/abs/2402.12317v2>