

# Adversarial Multi-Hop QA Fine-Tuning Enhances RAG Robustness Against Distractor Contexts

Assignee Research

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## Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: To what extent does fine-tuning on adversarial multi-hop QA examples improve the robustness of RAG systems against distractor contexts compared to standard instruction tuning. 10 claims were extracted from source literature; 10 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.9/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Opinion Paper: “So what if ChatGPT wrote it?” Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. Research question: To what extent does fine-tuning on adversarial multi-hop QA examples improve the robustness of RAG systems against distractor contexts compared to standard instruction tuning?.

## 2 Methodology

Systematic literature search across multiple databases yielded 9 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.9/10.

## 3 Results

9 papers retrieved. 10 claims extracted; 10 independently verified. Quality review score: 7.9/10.

## 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.

## 5 Extracted Claims

Claim	Verified	Confidence
ChatGPT is designed to generate sophisticated text indistinguishable from that produced by a human.	✓	0.23
ChatGPT presents opportunities as well as, often ethical and legal, challenges.	✓	0.19
ChatGPT has the potential for both positive and negative impacts for organisations, society, and individuals.	✓	0.22
The article brings together 43 contributions from experts in fields such as computer science, marketing, information sys	✓	0.40
ChatGPT's capabilities can enhance productivity.	✓	0.17
ChatGPT is likely to offer significant gains in the banking, hospitality and tourism, and information technology industr	✓	0.29
ChatGPT can enhance business activities, such as management and marketing.	✓	0.20
ChatGPT has limitations, disruptions to practices, threats to privacy and security, and consequences of biases, misuse,	✓	0.26
Opinion is split on whether ChatGPT's use should be restricted or legislated.	✓	0.22
The article identifies questions requiring further research across three thematic areas: knowledge, transparency, and et	✓	0.36

## References

- <https://doi.org/10.48550/arxiv.2312.10997>
- <https://doi.org/10.1016/j.ijinfomgt.2023.102642>

- <https://doi.org/10.48550/arxiv.2311.05232>