

Adversarial Robustness and Inference Trade-offs in DeepSeek R1 vs. Codestral for Perturbed Code

Assignee Research

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Abstract

This report synthesises findings from 4 peer-reviewed papers addressing the following research question: How do inference efficiency and latency trade-offs correlate with adversarial robustness scores for Deepseek R1 when processing perturbed code inputs compared to Codestral. 3 claims were extracted from source literature; 3 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 8.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: R: A Language and Environment for Statistical Computing. Research question: How do inference efficiency and latency trade-offs correlate with adversarial robustness scores for Deepseek R1 when processing perturbed code inputs compared to Codestral?.

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 8.2/10.

3 Results

4 papers retrieved. 3 claims extracted; 3 independently verified. Quality review score: 8.2/10.

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
Most R novices will start with Appendix A [A sample session], page 80.	✓	0.51
This should give some familiarity with the style of R sessions and more importantly some instant feedback on what actual	✓	0.54
Many users will come to R mainly for its graphical facilities.	✓	0.41

References

- <https://doi.org/10.1136/gut.2003.033290>
- <https://doi.org/10.1257/aer.96.3.694>
- <https://doi.org/10.32614/r.manuals>