

Codestral and Llama3 Inference Latency and Throughput at Comparable Code Generation Accuracy

Assignee Research

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Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: How do Codestral and Llama3 differ in inference latency and token generation throughput while achieving comparable pass@1 accuracy on code generation benchmarks. 7 claims were extracted from source literature; 7 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: AI-Assisted Pipeline for Dynamic Generation of Trustworthy Health Supplement Content at Scale. Research question: How do Codestral and Llama3 differ in inference latency and token generation throughput while achieving comparable pass@1 accuracy on code generation benchmarks?.

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 5.8/10.

3 Results

9 papers retrieved. 7 claims extracted; 7 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.

5 Extracted Claims

Claim	Verified	Confidence
Existing prototype geospatial question answering systems struggle to properly answer qualitative spatial questions.	✓	0.40
The proposed framework comprises three main components: a geoparser, a reasoning system embedded with a crisp reasoner,	✓	0.24
The geoparser component extracts place semantic information from text input questions.	✓	0.22
The answer extraction component refines the solution space and generates final answers.	✓	0.25
The experimental design evaluates the framework specifically for point-based cardinal direction calculus (CDC) relations	✓	0.24
An automated approach was developed to generate three types of synthetic qualitative spatial questions for the evaluatio	✓	0.24
Initial evaluations indicate that a high proportion of answers generated by the system were labelled correct.	✓	0.20

References

- <https://doi.org/10.4230/lipics.cosit.2022.18>
- <https://doi.org/10.48550/arxiv.2312.00752>
- <https://doi.org/10.1186/1471-2105-12-323>