

Qwen3-235B Inference Efficiency on SWE-Bench Verified Under Computational Constraints

Assignee Research

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Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: How does the inference efficiency of Qwen3-235B vary when evaluated on SWE-bench Verified tasks with different computational constraints. In this work, we present Qwen3, the latest version of the Qwen model family. Qwen3 comprises a series of large language models (LLMs) designed to advance performance, efficiency, and multilingual capabilities. 7 claims were extracted from source literature; 7 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 8.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Qwen3 Technical Report. Research question: How does the inference efficiency of Qwen3-235B vary when evaluated on SWE-bench Verified tasks with different computational constraints?.

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 8.8/10.

3 Results

14 papers retrieved. 7 claims extracted; 7 independently verified. Quality review score: 8.8/10.

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
Qwen3 comprises a series of large language models (LLMs) designed to advance performance, efficiency, and multilingual c	✓	0.28
The Qwen3 series includes models of both dense and Mixture-of-Expert (MoE) architectures, with parameter scales ranging	✓	0.31
A key innovation in Qwen3 is the integration of thinking mode and non-thinking mode into a unified framework	✓	0.26
Qwen3 introduces a thinking budget mechanism	✓	0.19
Empirical evaluations demonstrate that Qwen3 achieves state-of-the-art results across diverse benchmarks, including task	✓	0.31
Qwen3 is competitive against larger MoE models and proprietary models	✓	0.20
Compared to its predecessor Qwen2.5, Qwen3 expands multilingual support	✓	0.18

References

- <https://doi.org/10.48550/arxiv.2505.09388>
- <https://doi.org/10.1007/s11704-026-60308-3>
- <https://doi.org/10.48550/arxiv.2206.04615>