

Fine-Tuning Effects on Pass@1 Accuracy for Romanized Nepali in Llama-3.1-8B, Mistral-7B, and Qwen3-8B

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: What is the impact of fine-tuning on the pass@1 accuracy of Llama-3.1-8B, Mistral-7B-v0.1, and Qwen3-8B for Romanized Nepali language tasks using the same bilingual dataset. Romanized Nepali, the Nepali language written in the Latin alphabet, is the dominant medium for informal digital communication in Nepal, yet it remains critically underresourced in the landscape of Large Language Models (LLMs). This study presents a systematic benchmarking of 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 7.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Benchmarking Linguistic Adaptation in Comparable-Sized LLMs: A Study of Llama-3.1-8B, Mistral-7B-v0.1, and Qwen3-8B on Romanized Nepali. Research question: What is the impact of fine-tuning on the pass@1 accuracy of Llama-3.1-8B, Mistral-7B-v0.1, and Qwen3-8B for Romanized Nepali language tasks using the same bilingual dataset?.

2 Methodology

Systematic literature search across multiple databases yielded 12 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 7.0/10.

3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 7.0/10.

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/2511.05080v4>
- <http://arxiv.org/abs/2601.17364v1>
- <http://arxiv.org/abs/2604.14171v1>