

# Prompt Template Variation Effects on LLM Robustness and Accuracy in Code-Mixed Sentiment Analysis

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## Abstract

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: What is the impact of prompt template variation on the robustness and accuracy of LLMs versus fine-tuned transformers for code-mixed sentiment analysis benchmarks. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Prompt Engineering or Fine-Tuning: An Empirical Assessment of LLMs for Code. Research question: What is the impact of prompt template variation on the robustness and accuracy of LLMs versus fine-tuned transformers for code-mixed sentiment analysis benchmarks?.

## 2 Methodology

Systematic literature search across multiple databases yielded 10 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.2/10.

## 3 Results

10 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.2/10.

## 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.

## References

- <http://arxiv.org/abs/2310.10508v2>
- <http://arxiv.org/abs/2408.13006v2>
- <http://arxiv.org/abs/2308.10783v2>