

# Baichuan 2 and Vicuna-13B in Low-Resource Cross-Lingual Image Captioning

Assignee Research

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## Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How do Baichuan 2 and Vicuna-13B compare on cross-lingual image captioning tasks in low-resource settings. In NLP, Zero-Shot Classification (ZSC) has become essential for enabling models to classify text into categories unseen during training, particularly in low-resource languages and domains where labeled data is scarce. While pretrained language models (PLMs) have shown promise in 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 0.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Enhancing Small Language Models for Cross-Lingual Generalized Zero-Shot Classification with Soft Prompt Tuning. Research question: How do Baichuan 2 and Vicuna-13B compare on cross-lingual image captioning tasks in low-resource settings?.

## 2 Methodology

Systematic literature search across multiple databases yielded 11 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 0.2/10.

## 3 Results

11 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 0.2/10.

## 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/2506.15415v1>
- <http://arxiv.org/abs/2309.10305v4>
- <http://arxiv.org/abs/2503.19469v2>