

# UniPELT Adapters vs. Full Fine-Tuning on MMLU: Accuracy and Calibration Across Domains

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## Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does the performance of UniPELT-based adapter models compare to full fine-tuning on the MMLU benchmark when evaluated for accuracy and calibration across different domains (e.g., mathematics, history, law)? 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Parameter-Efficient Fine-Tuning of Large Pretrained Models for Instance Segmentation Tasks. Research question: How does the performance of UniPELT-based adapter models compare to full fine-tuning on the MMLU benchmark when evaluated for accuracy and calibration across different domains (e.g., mathematics, history, law)?.

## 2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.8/10.

## 3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.8/10.

## 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.

## References

- <http://arxiv.org/abs/2606.01947v1>
- <http://arxiv.org/abs/2503.20786v1>
- <http://arxiv.org/abs/2110.06500v2>