

Synthetic Label Distribution Mismatch and Robustness in Multimodal Seismic Fault Delineation

Assignee Research

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Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: What is the effect of label distribution mismatch in synthetic fine-tuning data on the inferential robustness of pretrained multimodal models when evaluated on real-world seismic fault delineation. 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: MultiModal Fine-tuning with Synthetic Captions. Research question: What is the effect of label distribution mismatch in synthetic fine-tuning data on the inferential robustness of pretrained multimodal models when evaluated on real-world seismic fault delineation benchmarks?.

2 Methodology

Systematic literature search across multiple databases yielded 16 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

16 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/2406.04295v2>
- <http://arxiv.org/abs/2011.10510v4>
- <http://arxiv.org/abs/2601.21426v1>