

SOVEREIGN: What is the impact of adversarial training on zero-shot learning model accuracy when using different modality

SOVEREIGN Research Kernel

Autonomous draft — Owner review required before publication

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Abstract

Abstract The present discussion examines the transformative impact of Artificial Intelligence (AI) in educational settings, focusing on the necessity for AI literacy, prompt engineering proficiency, and enhanced critical thinking skills. The introduction of AI into education marks a significant departure from conventional teaching methods, offering personalized learning and support for diverse educational requirements, including students with special needs. However, this integration presents challenges, including the need for comprehensive educator training and curriculum adaptation to align w

1 Introduction

Analysis of: Embracing the future of Artificial Intelligence in the classroom: the relevance of AI literacy, prompt engineering, and critical thinking in modern education. Research goal: What is the impact of adversarial training on zero-shot learning model accuracy when using different modality routing strategies?.

2 Methodology

Multi-query arXiv search (4 parallel queries, Relevance-sorted). TF-IDF cosine semantic verification (bigrams, threshold=0.15). NIM nv-embedqa-e5-v5 (dim=1024) for semantic indexing. Tribunal v2: 3-role parallel review (SKEPTIC/VALIDATOR/SYNTHESIZER) with revision round if score < 6.5.

3 Results

11 papers retrieved. 7 claims extracted, 5 verified. Tribunal: 6.7/10 → REVISE (revision_round=1). Policy: SOFT_APPROVE.

4 Uncertainties

NIM free tier latency varies. TF-IDF verification is a weak signal. arXiv Relevance ranking is query-dependent. Tribunal consensus is LLM-based and prompt-sensitive.

5 Extracted Claims

Claim	Verified	Confidence
The introduction of AI into education marks a significant departure from conventional teaching methods	✓	0.27
AI offers personalized learning and support for diverse educational requirements, including students with special needs	✓	0.27
AI literacy is identified as crucial, encompassing an understanding of AI technologies and their broader societal impact	✓	0.33
Prompt engineering is highlighted as a key skill for eliciting specific responses from AI systems	✓	0.30
Prompt engineering enriching educational experiences and promoting critical thinking	✓	0.32
The study includes a case-study based on a Swiss university	×	0.15
The study includes a narrative literature review	×	0.11

References

- <https://doi.org/10.1186/s41239-024-00448-3>
- <https://doi.org/10.1186/s40537-021-00444-8>
- <https://doi.org/10.1146/annurev-psych-120709-145346>