Adversarial Noise Training Effects on DPR and Contriever Retrieval in MSCOCO

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Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: What is the impact of adding adversarial noise during training on the retrieval performance of DPR and Contriever encoders on the MSCOCO captioning benchmark. Dense retrieval is becoming one of the standard approaches for document and passage ranking. The dual-encoder architecture is widely adopted for scoring question-passage pairs due to its efficiency and high performance. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Analysing the Robustness of Dual Encoders for Dense Retrieval Against Misspellings. Research question: What is the impact of adding adversarial noise during training on the retrieval performance of DPR and Contriever encoders on the MSCOCO captioning benchmark?.

2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

14 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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/2205.02303v1
- http://arxiv.org/abs/2110.03135v4
- http://arxiv.org/abs/2501.10935v2