IJARSCT

International Journal of Advanced Research in Science, Communication and Technology



International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 10, May 2025



Subjective Answer Evaluation Using NLP

Prof. V. N. Sawant¹, Uday Dube², Mayur Dhumal³, Mayank Hangshoo⁴

Professor, Department of Computer Engineering¹ Students, Department of Computer Engineering^{2.4} NBN Sinhgad Technical Institute Campus, Pune, India

Abstract: Subjective answer evaluation system aim to address the complexity of evaluation of written content. We propose innovative ways to use machine learning and language technology to automate this evaluation process. Use tools such as BERT and Cosine similarity to assess the quality of your responses. Our approach combines problem concepts with core concept solutions to assess student answers and allows machine learning models to predict reviews based on content and response quality. The first results show that similarity between the BERT- based embodiment and the cosine achieves a high level of accuracy when evaluating the answer, maintaining consistency and fairness. The project not only demonstrates the potential of electronic systems in educational assessments, but also aims to improve the overall effectiveness and integrity of context assessments.

Keywords: Subjective Answer Evaluation, NLP, BERT, Cosine Similarity



