

A language model-based recommender assessment system for short-answer questions in the intellectual property domain

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THE CHALLENGE AND THE SLASys SOLUTION

Challenge: Assessing short-answer questions



Increasing use of AI in education transforms assessment. Need for tools for open-ended questions.

Solution: SLASys with BERT model



Uses BERT (non-generative) for semantic comparison and predictive models.

BERT Advantages:

- Lighter
- Specific context
- Computational efficiency
- Fewer ethical/privacy issues

METHODOLOGY AND IMPLEMENTATION

Mixed Methodology



Action Research + Design and Creation.

Iterative development in 4 editions of a master's course (Intellectual Property).



Integration into Moodle



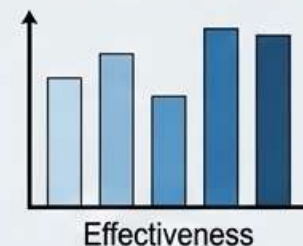
Used by non-technical faculty



Tested by 120 students in real-world environments.

RESULTS AND VALUATION

Demonstrated Effectiveness



Effective results (own framework and literature), even with reduced datasets and limited participants.

Positive Valuation



Faculty



Students

Positively valued by both groups.

Improves assessment and feedback.

Conclusion: SLASys demonstrates the viability of using AI in higher education (hybrid/online) to improve the assessment of short-answer questions in real-world contexts.