

# ScribbleInspect - Automated Handwritten Assignment Grading System

## ABSTRACT

ScribbleInspect is an automated grading system designed to assess handwritten assignments. It uses machine learning algorithms to recognize and evaluate handwritten texts, analyzing the text written by the student for legibility, spelling, grammar, punctuation, coherence, and other specific characteristics. One of the key features of the system is the use of an answer key to grade assignments, which ensures the grading process is accurate, consistent, and objective.

By comparing the written text to the answer key, the system determines the degree of accuracy in the response and assigns a grade accordingly. The grading system assigns a score based on the degree of similarity between the written response and the answer key. The more accurate the response, the higher the grade assigned to the assignment.

The use of an answer key ensures that the grading system is accurate and consistent, eliminating subjectivity and bias, and providing a fair evaluation of student assignments. It also helps to identify areas where students are struggling, allowing instructors to provide additional support to help students improve their performance. The system's ability to compare the written text to a standard answer key also provides students with feedback on the specific areas where they need to improve.

ScribbleInspect provides objective and fair grading and ensures that all students are evaluated based on the same standards. The system saves significant amounts of time for teachers and professors, freeing them up to focus on other important tasks. It also provides students with instant feedback on their assignments, allowing them to improve their writing skills in real-time.

**Keywords:** Automated grading system, Machine learning algorithms, Handwritten assignments, Answer key, Feedback, Education.

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