AUTOMATED ESSAY GRADING

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Abstract

Automated grading systems, for essays are gaining popularity worldwide as they simplify the grading process and provide feedback. The paper explores methods employed by these systems such as utilizing programs to comprehend language and interpreting word meanings. It also addresses challenges faced by these systems such as assessing the creativity and quality of an essay. However they offer advantages like grading essays despite some inconsistencies. By leveraging these technologies educators can save time. Dedicate attention to teaching. This research contributes to the discussion on integrating technology in education emphasizing the importance of striking a balance between assessments and human evaluation, in essay grading.

**INTRODUCTION**

**Automated Essay Scoring (AES) involves utilizing Deep Learning, Long Short Term Memory (LSTM) networks to assess essays according to established criteria. The goal is to simplify the grading procedure by teaching a system to assign grades that match the scoring trends of educators drawing from datasets, with scoring data. AES utilizes Natural Language Processing (NLP) to empower the system to understand and assess essays composed in language.**

# MAIN SECTION

# This is the way which enable us to grade the essay in easy way

# Natural language processing :

# Natural Language Processing (NLP) involves the interaction between computers and human languages. It focuses on enabling machines to understand, interpret, and generate human language in a meaningful way. NLP encompasses tasks such as text classification, sentiment analysis, machine translation, and speech recognition, advancing various fields like AI, linguistics, and data science.

# Artificial Intelligence :

AI simulates human intelligence in machines, particularly computers. It develops algorithms and models that allow machines to perform tasks like learning, problem-solving, recognizing things, and making decisions. AI fields include machine learning, language processing, computer vision, and robotics. AI is revolutionizing technology and our interactions with it by fostering innovation in multiple sectors.

**Language tool API :**

Language tools provide software and services that aid users with language-related tasks. They offer functions such as grammar checking for accuracy, spell checking for correct spelling, translation for communicating across languages, and linguistic analysis tools for understanding language structure. These tools improve written communication and facilitate effective understanding between different languages, providing support to individuals and organizations alike.

**Grading system :**

The gradings are done by individually allotting a marks for grammar mistakes , fluency , consistency , needs respectively.

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