

KOMPUTIKA

NEWSLETTER

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Social Innovations In Education By UM

OUTSIDE

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TAG

[English Literacy] [Rural
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Automated Essay Scoring System in a Classroom

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Write Smart: The Future of English Assessment

– By Mohd Yamani Idna Idris and Kheeshyenraaj

A Collaborative Grant to Empower Orang Asli Education

This project marks a unique collaboration between the Faculty of Education and the Faculty of Computer Science at Universiti Malaya, working closely with teachers at SK Sungai Sampo, a rural primary school serving the Orang Asli community in Negeri Sembilan. At the heart of the project is a simple yet powerful idea: to ease the burden of English writing assessment for teachers through technology, while enhancing students' learning experiences. By introducing an intelligent Automated Essay Scoring (AES) tool tailored to the local classroom, we hope to close literacy gaps and open new doors of opportunity for underserved learners.



Site Visit to SK Sg Sampo

The Promise of AES: A Teacher's Quiet Ally

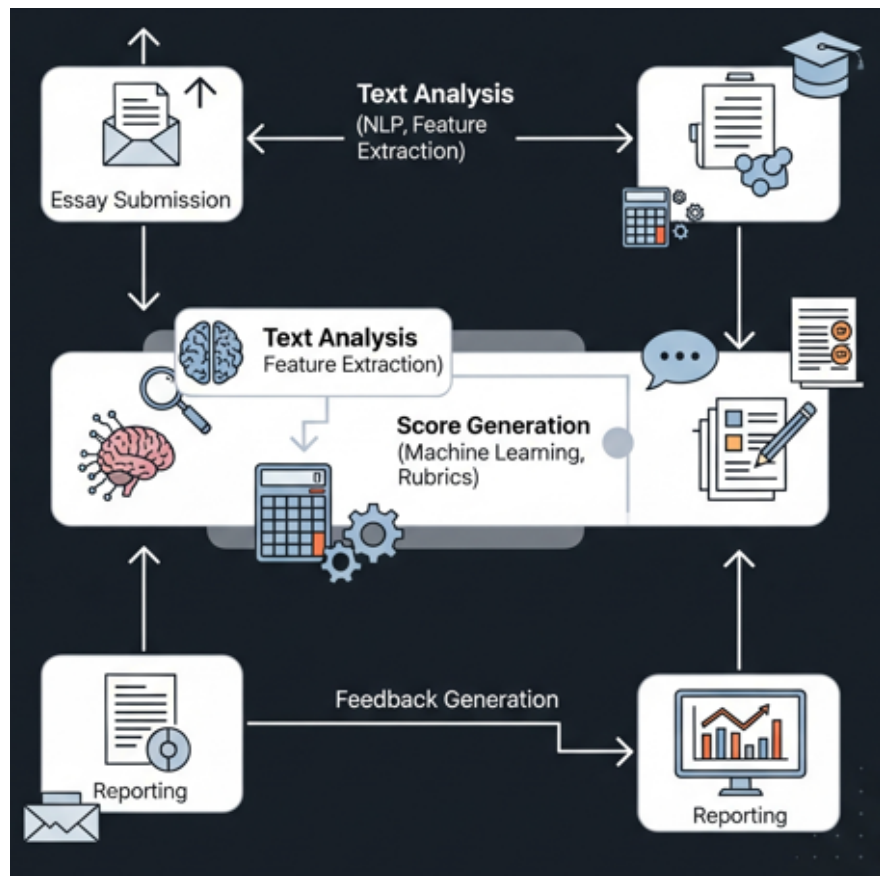
Automated Essay Scoring tools have gained global traction as time-saving, scalable alternatives to manual marking. But their potential goes beyond convenience. A well-designed AES system can offer real-time feedback, reduce marking inconsistencies, and allow teachers to focus on personalized interventions rather than repetitive corrections. In rural and under-resourced schools, this makes a world of difference especially when teachers juggle multiple roles and student needs.

Behind the Tech: How the System Works

At the heart of this project is a fully integrated Automated Essay Scoring (AES) system designed to simplify English writing assessment and enhance student learning. It all starts with a simple action: students either upload their essay document or type it directly into the system. If the essay is submitted as an image, a visual AI component steps in using a handwriting recognition model to accurately convert handwritten text into digital format.

Once digitized, the essay is evaluated using a hybrid machine learning system that combines content-aware algorithms and rubric-based scoring models. Each essay is scored both holistically and across specific traits such as grammar, coherence, vocabulary use, and relevance. Finally, a language generation module (powered by GPT-like technology) generates personalized, plain-English feedback telling students not just what their score is, but *why*, and *how* they can improve.

The entire system is designed to be teacher-friendly, student-sensitive, and usable even in low-bandwidth school environments.



Automated Essay Scoring System Flow

Building with Purpose: Why Orang Asli Communities Matter

While the AES tool is designed to eventually support schools nationwide, our pilot begins with a focus on Orang Asli learners in Negeri Sembilan, students who are often left behind not because of ability, but because of barriers. Language gaps, limited resources, and deep-rooted marginalization have made English literacy an uphill battle in these communities. Many students hesitate to continue their studies, convinced that poor writing skills mean they're not "good enough."

This project hopes to change that narrative. By working alongside local teachers and embedding cultural and contextual relevance into the system, we're building more than an AI model which can also help build self-belief. The goal isn't just to assess writing. It's to help students see that they *can* write, and that their voices matter.

What's Next: From Prototype to Policy

A prototype of the AES tool is currently under development and will be tested in selected classrooms. These trials will gather teacher feedback and classroom observations to guide improvements from refining the scoring model to enhancing the feedback interface. Comparative evaluations will also be conducted to benchmark the tool against conventional grading methods, ensuring it is not only innovative but also reliable.

If successful, the project will scale beyond Negeri Sembilan bringing the AES tool to more rural and under-resourced schools across Malaysia. Backed by Universiti Malaya's Global Transformation Research Grant, we aim to spark a broader conversation around technology-enabled assessment: not as a teacher replacement, but as a meaningful support system.

We're not just launching a tool, we're laying the foundation for a long-term shift in how English literacy is supported, assessed, and celebrated in our schools.

Dashboard My Essays Settings

The Importance of Education

Essay

Education is very important because it helps us learn new things and become smart. When we go to school, we learn how to read, write, and do math. These things help us in our life every day. For example, if we know how to read, we can understand signs and books. If we know math, we can count money and do shopping.

Teachers are very nice and they help us when we don't understand something. They teach us to be kind and to work hard. School is also a place where we make friends and play games together. I like going to school because I learn and have fun at the same time.

Without education, it would be hard to get a good job or help our family. We need to study so we can be doctors, teachers, or even astronots one day. Learning is not always easy, but it is very important.

Education is like a key that opens many doors. It helps us grow and be better people. That is why I think education is very special and everyone should go to school.

Save Draft

Submit

Score

85/100

Grammar & Mechanics

Minor errors found: 3 spelling, 2 spelling, 2 punctuation

View Details

Content & Coherence

Strong these statement, logical flow, but could impparaph transitions

Style & Tone

Formal tone, varied vocaulry, but some redraton phrasing

Suggestions for Improvement

Expand on the socio-economic impact mentianed in paraaph 3

Sample User Interface of the System

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