

AI: In Improving the quality of education

Bridging Digital Literacy at Nelson Mandela University

NELSON MANDELA
UNIVERSITY

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The Problem

Bridging the Digital Literacy Divide

Digital Literacy Gap for freshers in Nelson Mandela University

The issue at hand is not that students fail because they are incompetent for their chosen studies, rather it is due to the delay in bridging the digital literacy gap.

The Technology

Artificial Intelligence as a Solution



Personalized Learning

AI empowers students by offering **tailored educational experiences**. It ensures accessible learning through adaptive resources, which cater to individual needs, fostering engagement and motivation in diverse student populations.

AI Implementation

Successful Strategies based on the different roles in education

Teachers

- Automated assessment
- Focus on Higher-Order Learning:

Students

- Personalized Learning:
 - 24/7 On-Demand Support
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Key AI Applications

Transforming Education through Technology

Virtual Mentoring

AI-driven virtual mentoring connects students with experienced mentors, providing personalized guidance and support, thus enhancing their academic journey and helping bridge the digital literacy gap effectively.

Educational Gaming

Interactive educational gaming leverages AI to create engaging learning experiences, catering to diverse learning styles and fostering critical skills while making education enjoyable and accessible for all students.

Automated Assessment

AI-powered automated assessment tools streamline grading processes, provide instant feedback, and ensure consistency, allowing educators to focus on personalized instruction and improving overall student learning outcomes.

Digital Equalizer

A Model for Digital Inclusion

Comprehensive Approach

The 'Digital Equalizer' model aims to bridge the digital divide at Nelson Mandela University by providing targeted support and resources to enhance digital literacy among first-year students.

The Five-Part Implementation Strategy



Bootcamp

Focused training on digital literacy skills for students.



Predictive Analytics for Early Intervention

Use learning analytics to track engagement in digital systems.



Gamified orientation

AI-driven simulations that teach digital literacy in a game-like environment.

The Impact

Transforming Education and Lives

Educational Empowerment

By implementing AI-driven solutions, we can ensure equitable access to technology, thereby **leveling the playing field** for all students, ultimately closing the digital literacy gap at our university.

Conclusion

The Challenge:

- The digital divide is a significant barrier to equitable success.

The Opportunity:

- AI offers a transformative path to bridge this gap through personalized support.

The Strategy:

- The "Digital Equalizer" model provides a practical framework for Nelson Mandela University.

The Vision:

- AI as a powerful companion, empowering educators and ensuring equitable opportunity for all students.
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Any Questions?

Thank You !

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