African Water Security Studies (Environmental/Cross-disciplinary)

Developing and Evaluating an E-Learning Platform for Vocational Skills Training Among Urban Youth in Lagos: Impacts on Skill Acquisition

Olukotun Adekoya[1], **Nwachukwu Agbasiogie**[2], **Chidera Okereke**[1,3]

[1] Nigerian Institute of Advanced Legal Studies (NIALS)

[2] Department of Software Engineering, University of Port Harcourt

[3] University of Port Harcourt

Published: 08 March 2000 | **Received:** 13 January 2000 | **Accepted:** 15 February 2000

Correspondence: oadekoya@gmail.com

DOI: 10.5281/zenodo.18713960

Author notes

Olukotun Adekoya is affiliated with Nigerian Institute of Advanced Legal Studies (NIALS) and focuses on Computer Science research in Africa.

Nwachukwu Agbasiogie is affiliated with Department of Software Engineering, University of Port Harcourt and focuses on Computer Science research in Africa.

Chidera Okereke is affiliated with Nigerian Institute of Advanced Legal Studies (NIALS) and focuses on Computer Science research in Africa.

Abstract

The Lagos metropolis is a hub for urban youth seeking vocational skills training to enhance their employability in an increasingly competitive job market. However, traditional face-to-face training methods are often constrained by logistical and financial barriers. A mixed-methods approach was employed, integrating pre- and post-training assessments with surveys to measure changes in knowledge and attitudes towards computer science skills among participants. Focus groups were conducted to gather insights into user experience and platform usability. Participants reported a significant improvement in their understanding of programming languages (mean increase from 45% to 60%) after using the e-learning platform, with a confidence interval indicating these results are reliable at the 95% level. User satisfaction scores also demonstrated an upward trend post-training. The e-learning platform proved effective in enhancing computer science skills among urban youth in Lagos, Nigeria, suggesting its potential as a scalable solution for vocational training initiatives. Further research should explore the long-term effects of such platforms and consider implementing similar solutions across other regions with similar demographics. e-learning, e-skills platform, urban youth, skill acquisition, computer science education Model estimation used $\hat{\{\theta\}} = argmin\{\theta\} sumiell(yi, f\theta(\xi)) + \lambda lVert\theta rVert 2^2$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan, e-learning, pedagogy, assessment, outcomes, intervention, ethnography*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ REQUEST FULL PAPER

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge