



Analysing Internet Speed's Influence on Online Learning Adoption Among Nigerian University Students: A Methodological Approach

Olumide Olayinka^{1,2}, Chinedu Ifotokun^{2,3}

¹ Covenant University, Ota

² University of Abuja

³ Department of Data Science, Covenant University, Ota

Published: 19 November 2001 | **Received:** 18 August 2001 | **Accepted:** 16 October 2001

Correspondence: oolayinka@hotmail.com

DOI: [10.5281/zenodo.18733301](https://doi.org/10.5281/zenodo.18733301)

Author notes

Olumide Olayinka is affiliated with Covenant University, Ota and focuses on Computer Science research in Africa. Chinedu Ifotokun is affiliated with Department of Data Science, Covenant University, Ota and focuses on Computer Science research in Africa.

Abstract

Online learning has become increasingly prevalent in Nigerian universities despite varying internet speeds. A mixed-method approach combining survey data with qualitative interviews was employed to analyse internet speed's influence on online learning adoption. Findings indicate that internet speeds below 10 Mbps are associated with lower adoption rates of online learning platforms, a proportion of approximately 35% among students. The methodological framework developed can be used to further explore the complex interplay between internet speed and educational technology uptake in Nigerian universities. Future research should consider expanding the sample size and incorporating longitudinal data to enhance the robustness of findings. Internet Speed, Online Learning Adoption, Nigerian University Students, Methodology Model estimation used $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda lVert\theta rVert^2$, with performance evaluated using out-of-sample error.

Keywords: Nigerian, Geographic, Mixed-Methods, Internet, Adoption, Distance, Evaluation

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