



Telehealth's Impact on Rural Nigerian Farmers' Financial Well-being and Disease Prevention Adoption

Adekunle Tolu Babatunde^{1,2}, Olufemi Ayodeji Odunayo^{3,4}, Funmilayo Olayinka Adeola⁵, Biyi Olumide Chinedu^{6,7}

¹ University of Calabar

² Department of Cybersecurity, University of Abuja

³ University of Abuja

⁴ Department of Software Engineering, Usmanu Danfodiyo University, Sokoto

⁵ University of Port Harcourt

⁶ Department of Software Engineering, University of Port Harcourt

⁷ Department of Artificial Intelligence, University of Calabar

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Correspondence: ababatunde@yahoo.com

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Author notes

Adekunle Tolu Babatunde is affiliated with University of Calabar and focuses on Computer Science research in Africa.

Olufemi Ayodeji Odunayo is affiliated with University of Abuja and focuses on Computer Science research in Africa.

Funmilayo Olayinka Adeola is affiliated with University of Port Harcourt and focuses on Computer Science research in Africa.

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

Abstract

Telehealth services in rural areas of Nigeria have been limited due to infrastructure challenges and financial barriers. A mixed-methods approach combining surveys and qualitative interviews was used to gather data from a sample of rural farmers in Nigeria. Farmers reported a significant increase ($p < 0.05$) in adopting disease prevention measures through telehealth services, with over 70% indicating improved financial stability. Telehealth services have shown promise in enhancing the health and economic resilience of rural Nigerian farmers by providing accessible healthcare solutions. Investment in telehealth infrastructure and training programmes is recommended to maximise its benefits for underserved communities. 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: African Geography, Telehealth Services, Rural Health Access, Economic Empowerment, Qualitative Research Methodology, Precision Medicine Adoption, Community Health Networks

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