



Designing an AI Diagnostic Framework for Chronic Kidney Disease Screening in Lagos, Nigeria: An African Perspective

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Abstract

Chronic Kidney Disease (CKD) is a significant health issue in Lagos, Nigeria, with poverty-stricken areas facing higher prevalence and limited access to diagnostic tools. The AI model was trained using a dataset from Lagos, Nigeria, incorporating demographic and clinical data relevant to CKD diagnosis. This AI framework demonstrates promise for enhancing CKD detection in resource-limited settings, potentially reducing the disease's impact on vulnerable populations. Further validation and broader implementation are recommended to ensure reliability before widespread adoption. AI, Chronic Kidney Disease, Precision Medicine, Early Detection, Nigeria

Keywords: *African geography, Chronic Kidney Disease, Machine learning, Predictive modelling, Data analytics, Precision medicine, Telemedicine*

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