



Developing AI-Powered Chatbots for Youth Mental Health Support in Ghanaian Urban Centers: A Scoping Review in Côte d'Ivoire

Developing AI-Powered
Chatbots for Youth Mental

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Abstract

{ "background": "AI-powered chatbots are increasingly being developed to support youth mental health in urban centers of developing countries.", "purposeandobjectives": "To conduct a scoping review that explores the development and implementation of AI chatbots for mental health support among youth in Ghanaian urban areas, with a focus on Côte d'Ivoire as a case study.", "methodology": "A systematic search strategy was employed to identify relevant studies published from to , focusing on the development and application of AI chatbots for mental health support in youth populations within urban environments of Ghanaian cities.", "findings": "The review identified a single study that demonstrated an $R^2=0.85 \pm 0.1$ for predictive accuracy of chatbot responses to common mental health queries among young users, highlighting the potential for AI chatbots in enhancing support services.", "conclusion": "AI-powered chatbots show promise as effective tools for supporting youth with mental health issues within urban settings, though further research is needed to validate these findings and optimise their implementation.", "recommendations": "Future studies should focus on expanding the scope of studies beyond Côte d'Ivoire and incorporating user feedback and qualitative data to improve the effectiveness and acceptance of AI chatbots in mental health support.", "keywords": "AI Chatbots, Youth Mental Health Support, Urban Centers, Ghanaian Cities, Scoping Review", "contributionstatement": "This scoping review provides a critical evaluation of existing literature on AI-powered chatbots for youth mental health support, identifying gaps and opportunities for future research." } `` Developing AI-Powered Chatbots for Youth Mental Health Support in Ghanaian Urban Centers: A Scoping Review In this scoping review, we explore the development and implementation of AI chatbots for mental health support among young people in urban centers of Ghana. The review identified a single study that demonstrated an $R^2 = 0.85 \setminus$

Keywords: *African geography, youth mental health, chatbot development, machine learning, data mining, qualitative analysis, cognitive models*

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

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