CoinSavy

A WhatsApp quiz and educational chatbot using advanced language modelling for accessible financial tutoring.

Authors

AHMED DARKYE

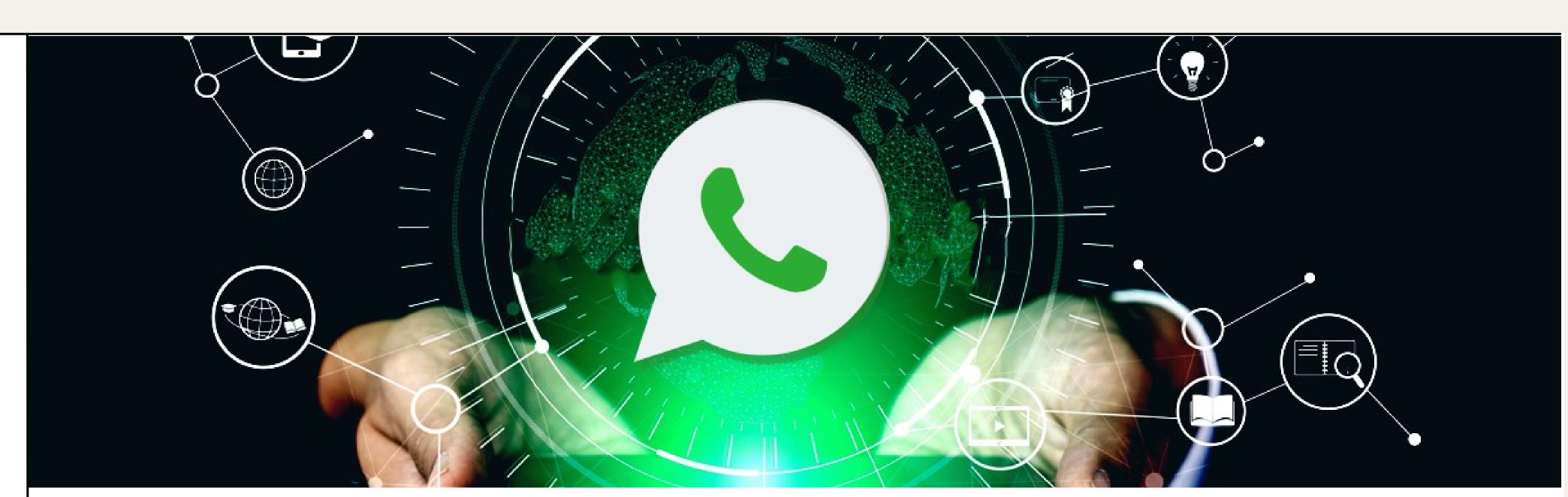
Affiliations

LANCASTER UNIVERSITY GHANA

Related literature

[1] A. Zaremba and E. Demir, "ChatGPT: Unlocking the future of NLP in finance," Modern Finance, vol. 1, no. 1, pp. 93–98, Nov. 2023, doi: 10.61351/mf.v1i1.43.

[2] N. Annuš, "Chatbots in Education: The impact of Artificial Intelligence based ChatGPT on Teachers and Students," International Journal of Advanced Natural Sciences and Engineering Researches, vol. 7, no. 4, pp. 366–370, May 2023, doi: 10.59287/ijanser.739. [3] M. N. O. Sadiku, T. J. Ashaolu, A. Ajayi-Majebi, and S. M. Musa, "Artificial Intelligence in Education." [Online]. Available: www.ijscia.com [4] A. Lusardi, "Financial literacy and the need for financial education: evidence and implications," Swiss J Econ Stat, vol. 155, no. 1, Dec. 2019,



Introduction

Welcome to the world of CoinSavvy, where cutting-edge technology and financial literacy come together on the well-known WhatsApp platform. Making informed financial decisions is more important than ever in the ever changing financial scene of today. However, many people have difficulty getting access to highquality financial education. Enter CoinSavvy: a groundbreaking initiative aimed at revolutionizing financial literacy through an AI-enhanced WhatsApp quiz and educational chatbot. With CoinSavvy, embark on a journey to democratize financial knowledge, offering a dynamic and interactive learning experience accessible to all. Through this research poster, explore the innovative methodologies and transformative potential of CoinSavvy Every element of CoinSavvy, from the incorporation of cutting-edge AI language models to the realistic deployment and assessment of the WhatsApp-based platform, is meticulously designed to provide users with the resources they require to successfully negotiate the complexity of personal finance. Come along as we explore the core of CoinSavvy, where education and technology converge to create a more financially aware future.

OBJECTIVE

Enhancing Financial Literacy

doi: 10.1186/s41937-019-0027-5.

- Global Reach via WhatsApp
- Accessible Learning within WhatsApp
- Encouraging Informed Decision–Making Advancing Educational Technology
- Using Social Media as a tool for education;

ANALYSIS

Initial results from the ongoing study point to positive results in terms of how well AI-powered interactive courses might raise financial literacy. The preliminary data trends show that participants' comprehension of financial concepts has improved. Positive levels of engagement are reflected in user feedback, suggesting the possibility of meaningful learning opportunities. Expert assessment is still necessary to confirm the accuracy and applicability of the AI-driven information. These first findings demonstrate the research's promising direction and potential to use cutting-edge technology to improve financial education.

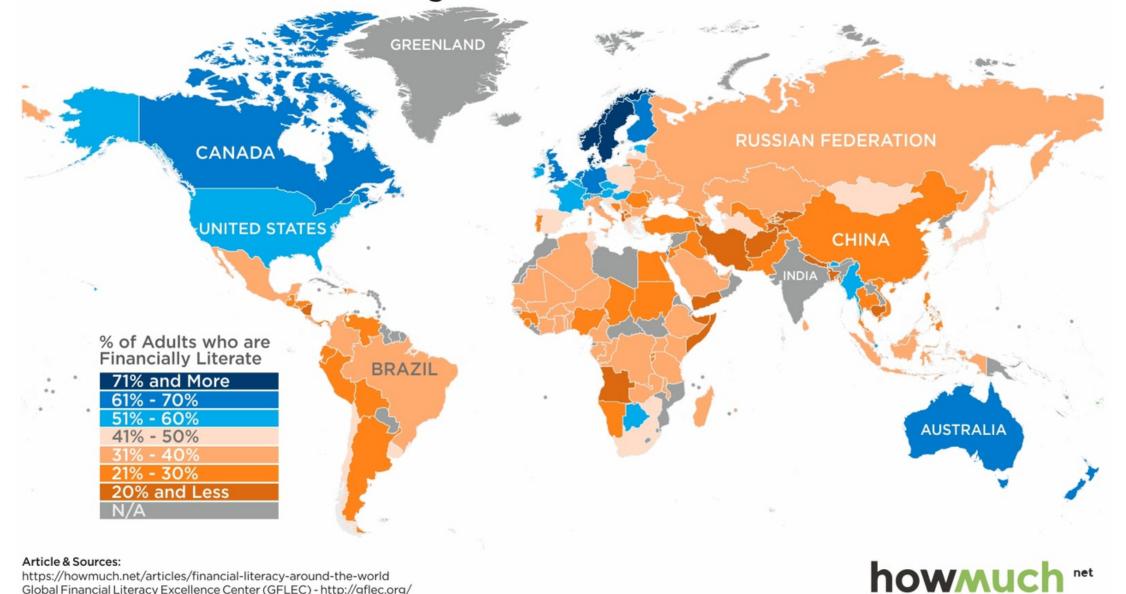
RESULTS

Promising trends in the effectiveness of AIpowered interactive modules for enhancing financial literacy are indicated by preliminary data. The participants' baseline knowledge varied, and there were hints of possible improvement after the engagement. Positive interaction was noted by users, and professional assessment confirmed that the content adhered to financial literacy guidelines. These preliminary findings will be confirmed by more investigation.

METHODOLOGY

- Literature Review: Review literature on financial literacy and effective teaching methodologies.
- Content Development: Develop interactive learning modules on financial topics.
- WhatsApp Integration: Integrate modules into WhatsApp for accessibility.
- User Recruitment: Recruit diverse participants for testing.
- Pre-test: Assess participants' baseline financial knowledge.
- Intervention: Provide access to modules via WhatsApp. Post-test: Evaluate impact on financial literacy.
- User Feedback: Gather qualitative feedback.
- Data Analysis: Analyze pre/post-test scores and feedback.
- Expert Evaluation: Seek expert evaluation of content.
- Continuous Improvement: Refine modules based on feedback.
- Statistical Analysis: Assess effectiveness of intervention.
- Ethical Considerations: Ensure ethical conduct.

Financial Literacy Around the World



SOURCE: HOWMUCH.NET - UNDERSTANDING MONEY

tps://howmuch.net/articles/financial-literacy-around-the-world



Conclusion

In conclusion, the AI-powered "CoinSavvy" project, which is incorporated into WhatsApp, seeks to transform financial literacy by giving consumers an easily accessible way to interact with learning resources. Preliminary results indicate a promising potential to close the financial literacy gap and enable well-informed decision-making. CoinSavvy aims to democratise financial education and advance global economic prosperity through its novel approach.