



Africa Practice Case Study

Meet the Fellows



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UENR, Ghana

BSc. Mathematical Engineering



Winifred Harriet Asante

AIMS Ghana

MSc. Mathematics

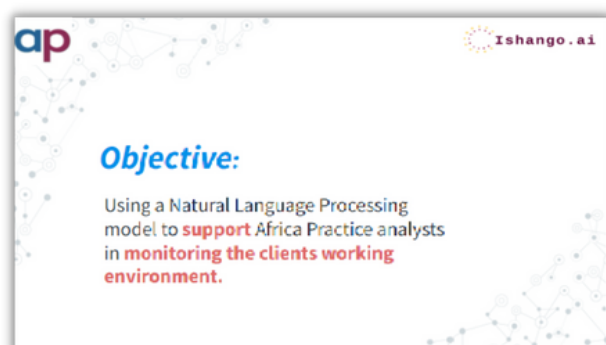
"It has been great getting to work on a project which allows me to make a positive impact on people's lives. It has challenged me and influenced me to set higher goals, push myself to go for something beyond what I thought I could do." – Winifred

The Host Company

Africa Practice is a strategic advisory firm, operating at the nexus of industry and government. They supply insights and advocacy solutions to corporations, investors, governments and foundations in Africa, enabling them to see more clearly, engage with confidence and unlock value to drive sustainable and equitable development.

Project Brief

Identification of relevant articles is currently a manual and time consuming task performed by Africa Practice analysts. The project involved developing a recommendation engine to support Africa Practice Analysts by suggesting the most relevant articles to enable them provide insights for their clients. This would free up significant amount of time for Analysts, which could be used instead for analysis and client advisory





Africa Practice Case Study



The Ishango fellows have made a strong contribution to our project, enabling us to accelerate progress. It has been a pleasure to work with Winifred and Stephen. They are talented, enthusiastic and well supported by the Ishango organisation.

Steen Joffe

Director, Digital and Data

Project Outcomes

- Applied Natural Language Processing to “understand” and group articles using 3 methods:
 - Named Entity Recognition (NER) to extract persons/organizations from text
 - Term frequency similarity between articles using TF-IDF
 - Topic Modeling using Latent Dirichlet allocation (LDA)
- LDA was found to be the most suitable given its ability to extract and group topics
- Writing back results to the Database after applying the above methods
- Behind-the-scenes work such as code reviews or unit testing to meet high-quality software development standards

About Ishango

Ishango is an innovative social enterprise with a mission to create high-skill data science jobs in Africa. We recognise the potential in the best graduates and nurture their talent in line with business needs. Since our launch in 2021, we have connected budding data scientists from across Africa to projects around the world.



Employment

80% employment rate after fellowship



Diversity

40% of fellows have been women



Mentorship

1100+ hours of mentorship from senior data scientists