



# Omniscient Neurotechnology Case Study

## Meet the Fellows



**Anisie Uwimana**

**AIMS Rwanda**

*MSc. Mathematical Sciences  
AMMI, Machine Intelligence*



**Joseph Marie Domguia**

**AIMS Rwanda**

*AMMI, Machine Intelligence*

## The Host Company

Omniscient Neurotechnology(o8t) is delivering practical and intuitive software solutions to connect pioneers in neurosurgery, neurology, and neuroscience with subject-specific brain analytics. Now, through enterprise-grade machine learning platforms, Omniscient is bringing connectomics (big data for the brain) to the front lines of both clinical therapy and scientific research.

## Project Brief

Fellows Joseph Marie Domguia and Anisie Uwimana worked alongside the data science team to better understand the impact of demographics on mental illness. The main focus was to understand the relationship between the demographic variables, the disease, and the connectomic data in order to better understand the implications of demographics for training predictive models and to avoid building a model that predicts a feature such as age rather than the mental health condition.





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*“The work done by the Ishango.ai fellows throughout the program led to useful insights for our company. Having now seen it first-hand, there’s no doubt that Africa has excellent and untapped Data Science talent, capable of delivering real business value.”*

**Hugh Taylor**  
Senior Data Scientist at  
Omniscient Neurotechnology

## Project Outcome

Fellows Joseph and Anisie were able to build a model which successfully identified key features, such as age and sex which contribute to the predictions of their model.

## 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