

Isaac Kobby Anni

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EDUCATION

Bowling Green State University.

Bowling Green, USA. April 2024.

Master's Degree

Major in Data Science

Relevant Coursework: Machine Learning, Data Science Programming, Database Management System.

African Institute for Mathematical Sciences.

Dakar, Senegal, July 2022.

Master's Degree

Major in Big Data and minor Statistics

Relevant Coursework: Machine Learning, Deep Learning, Statistics and Probability.

University for Development Studies.

Navrongo, Ghana, June 2019.

Bachelor's Degree.

Major in Finance and minor in Mathematics

Relevant Coursework: Corporate Finance, Calculus, Numerical Methods, Operations Research.

PROFESSIONAL EXPERIENCE

Graduate Assistant, Student Analytics and Technologies.

*Bowling Green, US.
Aug 2022 – Present*

- Created and designed dashboards using PowerBi
- Created and maintaining workflow to automate routine data handling activities using python
- Developed a pipeline for data analyses using Python and/or PowerBI
- Created predictive model for student retention rate.

Machine Learning (NLP) Intern, ICRISAT/CLU.

*Tucson (Remote), USA.
March 2022 – August 2022*

- Read over 10 crop research papers in the Senegal region with required variables for extraction.
- Wrote and upgraded scripts to extract parameters for crop simulation by the DSSAT project.
- Upgraded existing crop parameters extraction scripts for better performance.
- Presented on weekly basis with project progress.
- Created prompt analyses using openAI's GPT-3 for crop sentiment analysis.
- Created a cosine similarity analyses on large texts for keywords in crop research.
- Contributed to existing project on belief extraction from large texts
- Created a push request for the HABITUS project on GitHub.

DATA SCIENCE PROJECTS

Fake News Classification using Pretrained Transformer with Fine-Tuning: Python, PyTorch, Jupyter.

- Employed fine-tuning techniques and extensive experimentation to enhance model performance, achieving robust results in distinguishing between real and fake news.

Potato Disease Classification using Pretrained CNN with 96% Accuracy: Python, TensorFlow, Jupyter.

- Developed a robust classification model for potato disease using a pretrained Convolutional Neural Network (CNN). Fine-tuned the model and conducted extensive experimentation to achieve an impressive accuracy of 96% across 10 different classes of diseases.

U-Net-Based Building Segmentation for Rental Property Localization: Python, PyTorch, LabelStudio

- Developed an advanced segmentation model based on the U-Net architecture to accurately localize buildings staged for renting in Senegal.

SKILLS & TOOLS

Programming Skills: Python, R, C++, JavaScript

Data Management & Analytics: SQL, NoSQL (MongoDB)

Tools: Jupyter, Visual Studio, Git, PowerBI.

People Skills: Team Player, Emotional Intelligent, Sociable

Communication: Written and Oral

RESEARCH EXPERIENCE

- Maria Alexeeva, Mihai Surdeanu, Vijaya Rai Joshi, Hubert Kanyamahanga, Isaac Kobby Anni, Keith Alcock, Gerrit Hoogenboom “*NLP for extracting crop model parameters from literature*”. WASSA 2023 workshop. [link](#)
- [Annotating and Training for Population Subjective Views.](#) Maria Alexeeva; Caroline Hyland; Keith Alcock; Allegra A. Beal Cohen; Hubert Kanyamahanga; Isaac Kobby Anni; and Mihai Surdeanu. In *13th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis*, 2023. [link](#)