

# Isaac Kobby Anni | Machine Learning Engineer

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🏠 Homepage

*Results-oriented machine learning engineer in predictive modeling and data mining. Excellent problem-solving abilities and teamwork in statistical machine learning solutions.*

## Education and Training

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### Academic skills acquired.....

#### African Institute for Mathematical Sciences

Senegal

MSc in Mathematical Sciences,

2020–2021

Specialized in Big Data|Finance.

Expected Grade: **Very Good Pass**

Detailed achievements:

- Machine Learning/Deep Learning;
  - Graph theory/GNN
  - Computer Vision
  - Natural Language Processing
  - AI with Finance
- Database and Management System
- Probability and Statistics; Descriptive Analysis for qualitative and quantitative data
- Data Mining and Big Data Analytics
- Computational Finance

#### University for Development Studies

Navrongo-Ghana

BSc in Financial Mathematics,

2015–2019

focus in Corporate Finance

Final Grade: **Second Class(Upper Division)**

Detailed achievements:

- Capital Structure
- Corporate Finance
- Financial Management

## Masters Thesis

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**Title:** *Structural Approach to Credit Risk Modeling*

**Supervisor:** Dr. Conall Kelly. Director MSc Financial & Computational Mathematics, University College Cork, Ireland

**Description:** I am conducting mathematical analysis on selected structural stochastic models to investigate the likelihood credit default events where the value of the company falls below the level of bankruptcy.

## Bachelors Thesis

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**Title:** *Effects of Capital Structure on the Profitability of Financial Firms on the Ghana Stock Exchange*

**Supervisor:** Dr. Douglas K. Boah. Snr Lecturer, University for Development Studies, Ghana

**Description:** This thesis explored the spread of capital structure that improves the profitability of firm considering independent variables like return on assets, debt ratio etc using linear regression

## Work Experience

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### Vocational.....

#### Obertys

**Senegal-Dakar**

*Data Scientist, Intern*

*08/2021–02/2022*

This is six months project with the company in Fintech services on credit scoring, corporate rating and queuing system modeling.

Detailed responsibilities:

- Document analysis
- Data analysis
- Model simulation
- Modeling & model evaluation

#### Advans Ghana Savings & Loans Limited

**Accra-Ghana**

*Legal Administrative Assistant*

*09/2019–08/2020*

This is a one year mandatory national service.

Detailed responsibilities:

- Learned how to prepare mortgage, debenture, Hearing Notice, Affidavits, court letters etc.
- Learned registration of mortgage, debenture and other land documents.
- Learned vehicle registration and change of ownership.

#### Newmont GoldCorp Corporation

**Accra-Ghana**

*Summer Intern*

*05/2018–08/2018*

Analytical Skills and Teamwork in risk management.

Detailed responsibilities:

- Learned how to do power bill analysis using microsoft excel
- Learned how to do power rate review using microsoft excel
- Finally, I learned a lot on insurance policy and reviewed them.

#### Miscellaneous Activities

*2020-present*

I have worked on the following problems:

- NLP :Topic modeling, text classification, sentiment analysis, question answering.
- Computer Vision Object detection, image classification(binary and multiclass), multiclass plant disease classification using transfer learning.
- Machine Learning: Credit score modeling, corporate rating modeling, regression models, time-series forecast, etc.
- Graph ML: Representation learning, node embedding/classification

I have references to the source code on [my website](#)

## Certifications

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**22/02/2022:** Fundamentals of accelerated computing with CUDA Python *NVIDIA Deep Learning*

13/07/2021: TensorFlow Developer Certificate    *Udemy for Business Online Certificate of Completion*  
 06/07/2021: Python and Machine Learning for financial analysis    *Udemy for Business Online Certificate of Completion*  
 20/05/2021: Deep learning and Computer vision    *Udemy for Business Online Certificate of Completion*

## Awards

2020: African Institute for Mathematical Sciences    *Fully funded masters scholarship*

## Computer skills

**Basic:** Hadoop, SQL, MongoDB, Postgres

**Intermediate:** JAVASCRIPT, CSS, React HTML,  $\text{\LaTeX}$ , Linux, Microsoft Windows

**Advanced:** PYTHON; TensorFlow, Keras, PyTorch

## Communication Skills

2021: Oral Presentations at the African Institute for Mathematical Sciences

2020: Project presentation at Advans Ghana Savings and Loans Limited

2019: Thesis defense at the University for Development Studies

## Languages

**English:** Proficient    *Con conversationally & grammatically*

**French:** Basic    *Basic words and phrases only*

## Interests

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| - Tennis   | - Snooker |
| - Football | - Dancing |

## References

**School of Mathematical and Computer Sciences**  
*Professor Des Johnston, Edinburgh, EH14 4AS, Scotland*

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- o email: D.A.Johnston@hw.ac.uk
- o phone: +441314513255

**Heriot-Watt University,**  
*No.1*

**School of Mathematical Sciences**  
*Professor Conall Kelly, Ireland.*

Contact details:

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**University College Cork**  
*No.2*