Isaac Kobby Anni | Machine Learning Engineer

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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

Academic skills acquired

Bowling Green State University   **OH, USA**

MS Data Science,   *2022–2024*

Specializing in Big Data Analytics.

Grade: **In progress**

Courses in progress:
- Data Science programming
- Database and Management System
- Probability theory

African Institute for Mathematical Sciences   **Senegal**

MSc in Mathematical Sciences,   *2020–2021*

Specialized in Big Data.

Grade: **Good Pass**

Detailed achievements:
- Machine Learning/Deep Learning;
  - Graph theory/GNN
  - Computer Vision
  - Natural Language Processing
  - AI with Finance
- 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

Title: *Structural Approach to Credit Risk Modeling*

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

Description: I conducted 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

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

Vocational

Bowling Green State University   OH, USA
Graduate Research Assistant   *08/2022–05/2024*
Assisting in the office of the Student Success Analytics and Technologies.

Detailed responsibilities:
- Data analysis.
- Data wrangling and modeling.
- Building and designing dashboards using PowerBI.
- Designing workflow to automate daily activities.

International Crop Research Institute for the Semi-Arid Tropics, ICRISAT.   Senegal-Dakar
NLP Engineer, Intern   *03/2022–08/2022*
DARPA's project on Hyperlocal Elicitation and Understanding of Risks to Stability In Complex Systems.

Detailed responsibilities:
- Reading crop research papers publish in Senegal.
- Writing scripts to extract parameters for crop simulation.
- Contributing to the DARPA's HABITUS project on Github.

Baamtu Technologies   Senegal-Dakar
Machine Learning Engineer, Intern   *02/2022–04/2022*
A 3 months project with the company in R&D services on image segmentation

Detailed responsibilities:
- Satellite image collection.
- Image Labeling.
- Image segmentation.

Obertys Technologies   Senegal-Dakar
Machine Learning Engineer, 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:
- Data analysis
- Document analysis & text data extraction.
- Simulation & Development of KPI's in Queue Management System.
- Transfer learning on credit risk modeling training and tuning.

Miscellaneous Activities

I have worked on the following problems:
- NLP :Topic modeling, text classification, sentiment analysis, question answering.
- Computer Vision: Object detection, semantic segmentation, image classification(binary and multi-class), multi-class 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 techniques.

I have references to the source code on my website

Certifications

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: SQL, MongoDB, Postgres

Intermediate: JAVASCRIPT,CSS, React HTML, LaTeX, Linux, PowerBI

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   *Conversationally & grammatically*

French: Basic   *Basic words and phrases only*

Interests

- Tennis
- Football
- Snooker
- Dancing

References

School of Mathematical and Computer Sciences   **Heriot-Watt University,**
Professor Des Johnston, Edinburgh, EH14 4AS, Scotland   *No.1*
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