

Courage Ekoh

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Education

Rochester Institute of Technology

Aug 2022 – Present

PhD, SUSTAINABILITY AND AI

Carnegie Mellon University

Aug 2020 – Dec 2021

MS, INFORMATION TECHNOLOGY

- Concentration: Applied Machine Learning
- Graduate Teaching Assistant for two graduate level machine Learning courses: [18-751](#) and [18-661](#)

University of Ibadan

Jun 2014 – May 2019

BSc, INDUSTRIAL AND PRODUCTION ENGINEERING

Professional Experience

Koa Technology, Nairobi, Kenya (Fintech Start-up)

Sep 2021 – Jan 2022

DATA SCIENTIST

- Work with the operations team to provide insight from the data produced by all departments and foster growth in the company
- Maintain and update back-end queries to constantly meet business needs in terms of the data pulled out
- Created over 90% of the data engineering processes as well as the various reporting and visualizations used by the various departments in the daily running of the company

TFE Energy, Cape-Town South Africa

Sep 2021 – Dec 2021

MACHINE LEARNING CONSULTANT

- Utilized Machine learning to build a yield prediction algorithm for mini-grid connections in rural Africa
- Evaluated the possibility of data-backed refinancing for mini-grid connections by combining clustering, and classification algorithms
- Worked extensively with geospatial data to understand how development affects electricity access and consumption in rural villages.

Koa Technology, Nairobi, Kenya (Fintech Start-up)

May 2021 – Sep 2021

BI DEVELOPER & DATA ANALYST (Internship)

- Achieved 2,650% increase in active savers within 3-months from launch by pioneering data-driven initiatives on customer acquisition and retention.
- Built data pipelines and visualization tools from ground-up that provided 100% visibility into KPIs across the entire company

Schlumberger Oilfield Services, Port-Harcourt, Nigeria

Aug 2017 – Feb 2018

WELL SERVICES MAINTENANCE ENGINEER (Internship)

- Deployed GPS trackers and Maintenance Information Systems on over 200 oilfield assets (covering about 60% of the project, within a month) for better asset and maintenance management as part of the Global Traceability Project
- Maintained and certified pressure control equipment such as treating lines and valves to provide up to 99.99% availability on the field
- Conducted routine maintenance on oilfield equipment, i.e., pumps, engines, mixers, etc. that ensured downtime was near 0 hours.

Projects

- Extreme Multi-Domain, Multi-Task Learning with Unified Text-to-Text Transfer
- Face Recognition and Face detection with Convolution Neural Networks (ResNet-34)
- Speech Recognition with Recurrent Neural Networks (LSTMs)
- Detection of Malicious URLs using K-Nearest Neighbour Classifier

Skills

Machine Learning	Sci-Kit Learn, Pytorch, tensorflow, hugging-face
Data Science	NumPy, Pandas, Matplotlib, Tableau, Metabase, SQL, A/B Testing, StatsModel, SciPy, MS EXCEL, Google Data Studio
Programming/Frameworks Software	Python (Intermediate), Java (Intermediate), LINUX (Beginner), C/C++ (Beginner), AWS Git, Docker

Courses and Certifications

- Deep Learning Specialization (deeplearning.ai on Coursera)
- Machine Learning for Production Specialization (MLOps) (deeplearning.ai on Coursera)
- Data Foundations (Business Analytics) Nanodegree (Udacity)

Selected Publications

- Kolawole, A., and **C. O. Ekoh**. "A Multivariate Model to Predicting Vibration Features for Equipment Prognosis." *Nigerian Journal of Technology* 41, no. 4 (2022).