

# CHUKWUEMEKA EZUMEZU

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## SUMMARY

Dynamic Lead Machine Learning Engineer with over 5 years of experience in developing and deploying advanced machine learning models, data analysis, and software development. Proficient in cloud computing, MLOps, and algorithm development, with expertise in Python, SQL, and various machine learning frameworks. Demonstrated ability to enhance business strategies through data-driven insights and innovative solutions. Seeking a challenging role to leverage my skills in a mission-driven, fast-paced environment.

## WORK EXPERIENCE

### NUROVANT AI (REMOTE)

Dallas, Texas

AI/ML Engineer

03/2024 - Present

- Utilized ASR techniques with the NVIDIA NeMo model to conduct Speaker-Diarization tasks, transcribing audio files into speaker segments and timestamps.
- Developed and integrated the Teacher Speak Rate feature in Flask, analyzing diarized transcripts to optimize educators' speaking time and enhance student engagement during lectures.
- Implemented Questions Tracker with LLM to monitor and tally classroom questions, fostering educational dialogue.
- Built GPTZero-powered content classifier feature to differentiate human and AI text, aiding teachers in identifying academic dishonesty.
- Created ML-driven document proofreader feature to improve grammar, spelling, and punctuation, enhancing document quality.
- Mentored and supervised a machine learning engineering intern from the University of Washington, providing guidance on project assignments, code reviews, and career development.

### CHEKKIT TECHNOLOGIES CORP.

Ikoyi, Lagos

Lead Machine Learning Engineer

09/2022 – 03/2024

- Developed and deployed ChekIntel, a real-time business intelligence web application, to Azure App Service, resulting in a 10% profit increase.
- Designed and implemented ChekInspect, a computer vision solution for product inspection and quality assurance.
- Built predictive models for user survey data analysis, contributing to a 30% boost in data-driven decision-making.
- Developed customer segmentation and dynamic data dashboards using Tableau.

### DIGIPLEX TECHNOLOGIES (FREELANCER)

Lagos Island, Lagos

AI/ML Engineer | Web and Mobile App Developer

06/2017 - 02/2024

- Developed a Retrieval Augmented Generation (RAG) powered PDF and website links chatbot app using LangChain, ChatGPT API, Huggingface language models, and Python Flask. Also on a mobile app using Flutter.
- Developed a mobile breaking news app with over 1000 users on the Play Store and is generating revenues.

- Helped small businesses increase their sales by improving their online presence through building interactive and eCommerce websites, social media marketing, etc.

## **PUBLIC COMPLAINTS COMMISSION**

**Lagos Island, Lagos**

*Data Analyst*

*09/2013 – 08/2022*

- Conducted research, analyzed data using statistical techniques, identified trends, prepared reports, and made recommendations for the commission.
- Leveraged data-driven decisions to increase the closure rate of complaints by 30%.
- Initiated a new filing system for proactive cases, enhancing case file management and improving service delivery efficiency by 28%.

## **SKILLS**

- **MLOps:** FastAPI, Modelling, Deployment and Monitoring, CI/CD pipelines (GitHub Action), Docker Container, App service, Synthetic Data Generation, TensorFlow Extended (TFX), Responsible AI, Software Development Lifecycle (SDLC).
- **Cloud and Web:** GCP (AutoML, BigQuery, Vertex AI, Gen AI), AWS (Sagemaker, EC2), Azure, Flask, Streamlit, Version Control Systems (GitHub, Bitbucket), HTML/CSS and JavaScript
- **Data Scientist:** Python, NumPy, Pandas, Scikit-learn, ETL, NLP, Experimental Design, Recommendation Systems, Linear Algebra, Plotly.
- **Machine Learning Engineer:** Scikit-learn, Clustering, Dimensionality Reduction (PCA), Data Processing, Feature Extraction, Data visualization.
- **Data Analyst:** Descriptive and Inferential Statistics, Data Wrangling, Exploratory Data Analysis, Data Visualization.
- **Domain Knowledge:** Health, Education, and Retail.
- **Data Structures and Algorithms:** Arrays, Linked Lists, Stacks, Queues, Recursion, Tree, Sorting, Graph Algorithms.
- **Business Analytics and Predictive Analytics for Business:** Excel, SQL, Tableau, Alteryx Analytics Software.
- **Computer Vision:** PyTorch, TensorFlow, Keras, C++, CNN, RNN, OpenCV.
- **NLP:** Feature extraction, Deep Learning Attention, Topic Modeling, Sentiment Analysis.
- **Generative AI:** Retrieval Augmented Generation (RAG), LangChain, Large Language Models (LLM), Prompt Engineering, Attention Mechanism.

## **EDUCATION**

- Bachelor of Science in Computer Science, National Open University of Nigeria (NOUN),  
January 2014 - July 2019

## **CERTIFICATIONS**

- AI Product Manager Nanodegree, Udacity, March 2021 - August 2021
- Intel® Edge AI for IoT Developers Nanodegree, Udacity, March 2020 - July 2020
- Deep Learning Nanodegree, Udacity, March 2020 - July 2020
- Machine Learning Engineer Nanodegree, Udacity, November 2019 - February 2020

## **VOLUNTEER EXPERIENCE**

### **OMDENA**

*Machine Learning Engineer*

*07/2020 – 10/2020*

- Contributed to a project focused on preventing malaria infections through topography and satellite image analysis.
- Developed an algorithm for identifying stagnant water bodies, preventing mosquito breeding.