TITO OSADEBEY

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SUMMARY

3+ years of experience in managing and executing AI and data-driven projects, specializing in data analysis, product development, predictive modelling (machine learning, computer vision, and NLP) and working with cloud platforms like **AWS,** for institutions, open-source projects, and industrial applications globally.

TECHNICAL SKILLS

Linux, Windows, C, Python, MySQL, PostgreSQL, MongoDB, Terraform, Ansible, Docker, Git, DVC, MLflow, Databricks, Scikit-Learn, PyTorch, Tensorflow, OpenCV, Apache Spark, Hadoop, Flask, FastAPI, LangChain, LangGraph, HuggingFace, AWS

PROFESSIONAL EXPERIENCE

Keele University   UK
Research Assistant   Oct 2024 - Present

Keele University is a leading UK research institution with a Computer Science department specializing in AI and computational solutions for healthcare, featuring a team of 30+ researchers and faculty members.

- Utilizing computer vision on **GreenHPC** for animal health monitoring.
- Collected and preprocessed video data, extracting and labeling frames to build a high-quality dataset for training.
- Designed and trained a highly accurate computer vision model for detecting and analyzing animal movements.
- Evaluate model performance using advanced metrics and conducting video analysis to assess muscle-wasting conditions.

Bitnine Global Inc.   Remote
Software Engineer Intern   Mar 2023 - Aug 2023

Bitnine Global Inc. is a leading graph database technology company specializing in enterprise-grade database solutions for AI, big data, and cloud environments, serving Fortune 500 clients across North America, Europe, and Asia, with 100+ employees.

- Contributed to open-source development for **Apache AGE** and **AGE Viewer**, resolving over 15 technical issues and providing expert solutions to community queries on Stack Overflow.
- Researched and co-authored core algorithms integrating Apache AGE with Python's NetworkX library, enabling seamless graph data analysis and visualization capabilities for enterprise clients.
- Produced comprehensive technical documentation for Apache AGE and supporting the Apache Software Foundation's open-source ecosystem.
- Enhanced existing Docker Compose configuration for streamlined deployment, reducing environment setup time and improving developer productivity across distributed teams.

Unify   Remote
Machine Learning Contributor   Nov 2022 - Mar 2023

Unify, headquartered in London, is a software development company specializing in AI performance management systems for sales teams. With a team of 11-50 employees, Unify is backed by OpenAI and Thrive Capital.

- Developed and integrated new functions in **Ivy**'s math module, optimizing algorithm efficiency and accuracy.
- Collaborated with core developers to benchmark and refactor key components of Ivy's computational backend, enhancing model interpretability and runtime performance.
- Contributed to the design and testing of cross-framework compatibility features, enabling seamless deployment across TensorFlow, PyTorch, and JAX.
- Documented code and created reproducible examples to support community adoption and accelerate onboarding for new contributors.

ProxMaq Foundation   Remote
Computer Vision Engineer   Nov 2022 - Jan 2023

ProxMaq Foundation is a non-governmental organization in India dedicated to developing technological solutions for the visually impaired. With a team of 1-50 employees, ProxMaq focuses on products like ProxVision smart glasses to enhance the lives of blind individuals

- Researched and leveraged deep learning models to build object recognition on the CIFAR-100 dataset, currency detection, image segmentation features for **ProxVision** smart glasses using OpenCV and TensorFlow.
- Optimized model performance for real-time inference on edge devices, enabling faster and more accurate object detection for wearable assistive technology.
- Collaborated with cross-functional teams to align computer vision capabilities with user needs, focusing on accessibility and ease of use for visually impaired users.

Coop Property Development Company Ltd.   Lagos, Nigeria
Mechanical Engineer   Jun 2021 – Nov 2022

Coop Property Development Company Limited (CPDCL), headquartered in Ibadan, Nigeria, is an indigenous construction company delivering diverse designs in building and civil engineering. With a team of 51-200 employees, CPDCL focuses on quality and standardized projects across Nigeria.

- Led a team of more than 10 members, ensuring project completion within budget and timeline.
- Designed, managed and supervised the implementation of MEP systems of multi-million naira residential projects.

PROJECTS

Event Registration Forecasting System
- Served as Product Owner within a 6-member Agile Scrum team for a client, leading sprint planning, backlog prioritization, and cross-functional coordination to deliver a functional proof of concept.

- Built a forecasting application to predict total event registrations using Python, SARIMAX, and Tkinter, directly informing commercial decision-making and future R&D investment.
- Developed a clean, Tkinter-based user interface that enabled stakeholders to simulate forecast scenarios across different time windows with ease.
- Earned praise for critical thinking, clear technical justification, and strong documentation.
- The system improved forecast accuracy by over 30% compared to prior manual estimates, reduced overbooking or underbooking incidents by 45%, and supported a 20% more efficient allocation of marketing resources for upcoming events.

Medical Insurance Prediction System
- Led a cross-regional team to develop a machine learning model predicting medical insurance costs.
- Enhanced model performance through feature engineering, cross-validation, and hyperparameter tuning.
- Deployed the model, delivering an interactive web application for users to explore predictions and insights.
- Created a data visualization dashboard to analyze cost distributions, customer demographics, and risk factors, allowing insurers to identify high-risk groups and optimize pricing strategies.

COURSES AND CERTIFICATIONS

BlueDot Impact, AI Safety Operations Bootcamp

IBM, AI Engineering Professional Certification

IBM, Machine Learning with Apache Spark

Raspberry Pi, Internet of Things with Raspberry Pi Pico Workshop

EDUCATION

Keele University, MSc Artificial Intelligence and Data Science - Distinction

ALX Africa, AS Software Engineering

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