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# Akinyemi Arabambi

AI Researcher, Tech Industry Specialist, Innovative Problem Solver

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## Summary

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I am a dynamic and innovative ML/AI Engineer and Technical Solution Architect with a proven track record of developing cutting-edge solutions across various industries. With expertise in Artificial Intelligence, IoT, RAG (Retrieval-Augmented Generation), and automation, I specialize in leveraging emerging technologies to solve complex problems and drive business growth.

Currently, I am at the forefront of enterprise AI, collaborating with IBM iUG and Essist Omikron to deliver scalable, impactful solutions on platforms like IBM Cloud and Power10 systems. My work extends to IIoT solutions, integrating advanced computing for industrial efficiency. In addition to my technical role, I am passionate about empowering communities. I have initiated projects to help ethnic minorities and students in the UK secure employment, assisting them with documentation and referrals.

With a strong academic foundation (BSc in Mechanical Engineering, MSc in Oil, Gas, and Energy Engineering, and MSc in Artificial Intelligence), my career has been marked by leadership, innovation, and the ability to deliver practical, high-impact solutions. I thrive on challenges, whether it's building Python libraries used by thousands, integrating quantum machine learning into cybersecurity frameworks, or creating AI-driven LMS platforms. If you're looking for a forward-thinking professional with a knack for blending technical expertise and strategic vision, let's connect.

### Specialties:

- AI & Machine Learning Solutions
- IoT & IIoT Integration
- RAG Applications LLMops
- Automation & System Architecture
- Entrepreneurship Community Impact

## Experience

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### AI Researcher

MAGNA SPECIALIST CONFECTIONERS LTD

*Telford, England, United Kingdom*

*Apr 2025 – Present (3 months)*

- Design and deploy applied ML models using PyTorch, scikit-learn, and Hugging Face for use cases including predictive maintenance, anomaly detection, and operational optimization.
- Architect RAG (Retrieval-Augmented Generation) pipelines using Milvus, Ollama, vLLM, and Lucid to support dynamic agents for contextual business queries.
- Connect and orchestrate industrial data sources using MQTT, Kepware, and integrate with legacy AS400/DB2 for i systems via 5250 terminal sessions.
- Utilize Apache Spark for distributed data processing and analytics, and pyODBC for secure, high-performance connectivity to relational databases in enterprise environments.
- Containerize and optimize AI services using Podman, OpenBLAS, and IBM Power system (ppc64le), enabling high-performance deployments at the edge and in hybrid infrastructures.
- Lead orchestration of intelligent agents and toolchains using AutoGen and BeeAI, enabling integration with Trello, MES systems, planning tools, and cloud storage platforms.

### University of Wolverhampton

*Wolverhampton, England, United Kingdom*

Associate Lecturer

*Oct 2024 – Jun 2025 (9 months)*

**Practice Educator (Multiply Project) (Team Lead)**

*Nov 2023 – Jun 2025 (1 year 8 months)*

- Managing and mentoring new tutors introduced to the program.
- Providing one-to-one and small group online tuition to adult learners, using the university's Virtual Learning Environment (CANVAS).
- Utilizing innovative technological tools and video conferencing software to create an interactive and effective learning experience.

**ML Research Assistant**

*Jan 2023 – Jun 2025 (2 years 6 months)*

- Participating in the development of educational resources and contributing to outreach and recruitment activities in the community.

**Technical Solutions Architect**  
*ESSIST OMIKRON LIMITED*

*Manchester Area, United Kingdom*  
*Aug 2024 – Jun 2025 (11 months)*

- Collaborating with Essist Omikron and IBM iUG to architect and implement AI and IIoT (Industrial Internet of Things) solutions tailored for enterprise environments.
- Leveraging IBM Cloud services to integrate AI and IIoT technologies into existing infrastructure, optimizing operational efficiency and scalability for industrial applications.
- Driving innovation in enterprise IT systems by modernizing IBM i system management, AI deployments, and IIoT solutions for smarter, connected operations.
- Active contributor to user groups and events, sharing insights on AI deployment, IIoT integration, and cloud technologies within IBM ecosystems.

**Vice President**

*BCS Wolverhampton Student Chapter*

*Wolverhampton, England, United Kingdom*  
*Nov 2023 – Jun 2024 (8 months)*

**Data Scientist**

*Peppes Pizza*

*Stavanger/Sandnes, Rogaland, Norway*  
*Sep 2021 – Dec 2022 (1 year 4 months)*

**Summer Internship**

*The Cyprus Institute*

*Nicosia, Cyprus*  
*Jul 2021 – Sep 2021 (3 months)*

- Developed a machine learning model that analyzed and predicted customer behavior with 95% accuracy, leveraging Python, R, and TensorFlow to parse through 10TB of user data, which ultimately informed business strategy and decision-making.
- Engineered a machine learning model to categorize customer feedback with a 95% accuracy rate, streamlining the decision-making process and increasing response efficiency by 30% during the summer internship.
- Integrated Langchain, and Llama technologies to develop an advanced chatbot prototype during a summer internship, resulting in a 50% improvement in natural language understanding and response accuracy.

**Data Analyst**

*CODA Nigeria Enterprises*

*Ikeja, Lagos, Nigeria*  
*Jan 2015 – Dec 2019 (5 years)*

- Conducted a comprehensive data quality audit by evaluating metrics, utilizing pivot tables to identify and report anomalies to the IT department, leading to a significant improvement in overall data quality.
- Developed Tableau dashboards to track transactions and revenue, identifying the most profitable customers and contributing to a 15% increase in customer retention through targeted product improvements.
- Analyzed large data sets to pinpoint trends and anomalies, and presented these insights in detailed reports and presentations to stakeholders, enhancing data-driven decision-making.
- Documented data requirements and metrics after thorough interviews with business users, effectively translating complex data concepts for business stakeholders and securing approval through persuasive presentations.

## Computer Specialist

Oduduwa University

Ipetumodu

May 2015 – May 2015 (1 month)

- Installed a new operating system and database softwares in over 50 computers in the laboratory, configured configurations, networks and user accounts to obtain optimum performance by using Windows system, Microsoft Access and Visual Basic 6.
- Increased lab productivity by 50%, improved data security by 68%, and enabled up to 50 users to simultaneously use the lab resources.
- Conducted comprehensive system tests and post-installation checks to ensure optimal performance and security.

## Education

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### University of Wolverhampton

Master's degree, Data Science & Artificial Intelligence

Jan 2023 – Mar 2024

### University of Stavanger

Master of Science - MS, Oil, Gas, and Energy Engineering

Aug 2021 – Dec 2021

### University of Nicosia

Master's degree, Oil, Gas and Energy Engineering

2020 – 2021

### Obafemi Awolowo University

BSc. Mechanical Engineering

2009 – 2015

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Computer Programming

## Top Skills

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- Manufacturing Process Improvement
- Process Optimization (Manufacturing)
- Computer Vision

## Languages

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<b>English</b>	Native or Bilingual
<b>Yoruba</b>	Native or Bilingual
<b>German</b>	Limited Working
<b>Norwegian</b>	Limited Working
<b>Greek</b>	Elementary

## Certifications

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- Duolingo German Fluency: Beginner (Estimated)
- AWS Certified Machine Learning - Specialty (MLS-C01) Cert Prep: 1 Data Engineering
- TensorFlow Developer Certificate
- International Well Control Forum Level 1
- SAS Visual Analytics 2 for SAS Viya: Advanced

## Publications

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- INFLUENCE OF TEMPERATURE DIFFERENCE (WATER-COVER SURFACE) ON THE PERFORMANCE OF A COMPACT HEMISPHERICAL SOLAR STILL