

Arabambi Akinyemi Ezekiel

📍 England, United Kingdom ✉ yemiarabambi@gmail.com ☎ 07823746115 📺 in/yemiarabambi/ 📄 2abet.github.io

SUMMARY

Highly skilled Graduate ML Researcher with several years of experience. Strong background in Artificial Intelligence and machine learning algorithms. Proven ability to develop and implement innovative solutions to complex problems. Seeking a position in the field of Artificial Intelligence to contribute expertise in ML research and advance the development of intelligent systems.

EDUCATION

Master of Science Artificial Intelligence

University of Wolverhampton · United Kingdom · 2024

• Modules: Data Mining & Informatics, Data Science, Intelligent Agents, Deep Machine Learning, Concepts of Artificial Intelligence, Project Management, Research Methods, and Statistics for Data Science.

Masters of Science Oil, Gas, and Energy Engineering

University of Nicosia and University of Stavanger · Cyprus / Norway · 2022

• Awarded the ERASMUS scholarship to complete M.Sc program at the University of Stavanger

BSc. Mechanical Engineering

Obafemi Awolowo University · Nigeria · 2016

EXPERIENCE

Graduate ML Researcher

University of Wolverhampton

January 2023 – Present, Wolverhampton, UK

- Engineered a cutting-edge solution by integrating Generative Adversarial Networks (GANs) with Large Language Models (LLMs) for prompt engineering, which enhanced output optimization by 30% and established a new benchmark for response quality in machine learning research.
- Engineered a Python package 'TrainTime' utilizing TensorFlow and Keras APIs that dynamically predicts and displays the remaining training time after each epoch, enhancing user productivity by providing accurate expectations for model training duration.
- Engineered an enhanced industrial workflow by integrating multiple TensorFlow models within a Node-RED environment, achieving a smoother operation and reducing manual intervention by 30%.

Data Scientist

Peppes Pizza, Stavanger

September 2021 – November 2022, Stavanger, Norway

- Engineered a sophisticated market basket analysis using Python and the Apriori algorithm, analysing over 500,000 transaction datasets to uncover product associations, subsequently increasing cross-selling strategies by 20%.
- Engineered a machine learning model that categorized customer sentiment with 95% accuracy, leading to a 30% improvement in targeted marketing strategies and customer satisfaction rates.
- Analyzed over 5TB of structured and unstructured data using advanced machine learning algorithms in Python, enhancing predictive models and leading to a 20% increase in decision-making efficiency.

Summer Internship

The Cyprus Institute

July 2021 – September 2021, Nicosia

- 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 Enterprises

February 2015 – November 2019

- Analyzed and interpreted complex data sets using SQL and Python, identifying key trends that led to a strategic business decision saving the company over \$500,000 annually.
- Engineered a comprehensive data warehousing solution that aggregated and normalized data from 15 disparate sources, enhancing the analytics team's reporting efficiency by 25%.
- Analyzed large datasets using SQL and Python, leading to the discovery of key business insights that drove a 15% increase in operational efficiency after implementing data-driven strategy adjustments.

PROJECTS

TrainTime

University of Wolverhampton · <https://pypi.org/project/train-time/> · March 2023 – March 2023

- Engineered a Python package 'TrainTime' that provides efficient callback mechanisms during machine learning training processes, used by over 1000 data scientists to streamline model development and improve training time by an average of 15%.
- Created an innovative integration with TensorFlow/Keras Model Checkpoints for proper remaining time estimation.
- Engineered a dynamic training time display feature within the TrainTime package that allows users to customize time formats, enhancing user experience and accommodating user preferences, tested across 1,000+ active users.

Data Mining and Informatics

University of Wolverhampton · March 2023 – March 2023

- Designed and executed a complex COVID-19 risk analysis using K-Means clustering which processed over 500,000 patient data points to identify hotspots, aiding in the strategic allocation of healthcare resources and response planning.
- Engineered a sophisticated data mining algorithm to analyse over 5 years of UK crime data, successfully identifying residential suitability patterns through hierarchical clustering, which aided in the development of an interactive visualization tool that improved client decision-making efficiency by 25%.
- Engineered a decision tree classification model to predict loan default cases, achieving a model accuracy of 95% by mining and analysing over 500,000 historical loan records, effectively aiding risk management decisions.

Face Emotion Detector

University of Wolverhampton · <https://github.com/2abet/Face-Emotion-Project> · November 2023 – November 2023

- Engineered a robust facial emotion detection system by integrating a sophisticated classifier model with 'haarcascade_frontalface_default.xml', resulting in a 93% accuracy rate in identifying nuanced human emotions from live camera feeds.

CERTIFICATIONS

Tensorflow Developer

Tensorflow · 2024

- Proficiency in neural networks, computer vision, natural language processing (NLP), and sequence models, showcasing the ability to tackle practical AI and machine learning challenges.
- Represents a commitment to mastering cutting-edge AI technologies and dedication to continuous learning in the rapidly evolving field of artificial intelligence.
- Ensures capability in employing TensorFlow for developing innovative solutions in machine learning, deepening technical proficiency, and contributing to the advancement of AI projects.

SAS Visual Analytics

SAS · 2024

- Demonstrated ability to use analytics and interactive reporting to derive insights from big data, enhancing decision-making processes.
- Solid understanding of SAS technologies for data exploration, analysis, and visualization, supporting strategic business initiatives through data-driven evidence.
- Certified skills in leveraging SAS Visual Analytics for solving real-world business problems, showcasing the ability to translate data into actionable insights.

INVOLVEMENT

Vice President

University of Wolverhampton · The Chartered Institute of IT · October 2023 – Present

- Fostered effective communication and collaboration to deliver projects in collaboration with IBM to deliver the IBM MQ digital certificate to over 50 students.
- Improved member satisfaction by 43%, through increased visibility and transparency of the digital transformation project.
- Designed and delivered a comprehensive Git, GitHub, and GitHub Pages training program for 150+ students, enhancing their coding proficiency and employability, with 95% of participants giving positive feedback about their applications to industry roles within three months of course completion.

SKILLS

Data Analysis and Software Proficiency: MATLAB, Numpy, Pandas, Matplotlib, data driven insights, SAS, Tableau.

Programming and Technical Tools: Git, PyTorch, TensorFlow, Keras, R (Programming Language), Amazon Web Services (AWS), OpenCV, Docker, Kubernetes, Streamlit, Flask, Node-red and concepts of MLOPs.

Project Management and Communication:

- Demonstrated project management skills in technical environments
- Effective verbal and written communication for stakeholder engagement

Additional Skills:

- Adaptability in rapidly changing technological environments
- Problem-solving skills in engineering and technical contexts