

Saheed KAZEEM | Machine Learning Scientist

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Career Summary

Machine Learning Scientist with a demonstrable knowledge of machine learning and big data analytics frameworks. Adept at transforming raw data into actionable intelligence through data mining, data cleaning, data visualizations, data augmentation, and predictive analysis using a wide range of tools and frameworks such as Microsoft Excel, SPSS, PowerBI, Tensorflow, Pytorch, and MapReduce. Seeking to contribute my analytical skills, technical expertise, and passion for innovation to a dynamic team.

Selected Projects

- A heterogeneous graph reinforcement learning framework for the detection of APT attacks.
- A deep reinforcement learning algorithm for malware detection in wireless networks.
- An object detection and tracking system using YOLO and COCO dataset on OpenCV.
- A default customer predictive model using logistic regression.

Professional Experience

Machine Learning Scientist | Atlantic Technological University | Galway, Ireland | October 2022 – Present

Responsibilities & Achievements

- Analyse terabytes of network traffic data using deep learning models to identify malicious events in real-time.
- Research and introduce a new but more efficient method to analyse large volumes of heterogeneous graph-structured data to my research team.
- Carryout descriptive and inferential analysis on large-scale dataset using Python programming frameworks for data science.
- Leverage distributed computing frameworks such as MapReduce to speed up data preprocessing tasks on big data platforms such as Hadoop clusters or Apache Sparks.
- Collaborate with other researchers in the environmental team to collect and analyse remote-sensor data.
- Build and evaluate three novel malware classification algorithms for network intrusion detection.
- Develop novel predictive models to support different proofs of concepts.
- Published three high-impact papers on state-of-the-art machine learning techniques for monitoring and preventing network threats.
- Engage 500 technical and non-technical audiences on the latest AI technologies used in cybersecurity at the 31st Irish Artificial Intelligence and Cognitive Sciences conference in Ireland.
- Received a \$300 travel grant from the IEEE Communication Society in recognition of my innovative research contributions in machine learning for networking and wireless communication.

Technical Support Engineer | Tek Experts | Lagos, Nigeria | June 2022 - October 2022

Responsibilities & Achievements

- Established and maintained relationships with clients via phone calls, emails, and virtual meetings.
- Played a key role in enhancing Microsoft Dynamics 365 F&O software features in production environments by reporting identified bugs and user preferences to the product engineers.
- Volunteered to train and introduce 10 new support engineers to the technologies supported in my line of business.
- Collaborated closely with team managers and technical leads to navigate and recover challenging cases, ensuring a high level of customer satisfaction.
- Won the best employee award two times based on the highest contributed KPIs.
- Performed a quick transfer of support tickets falling outside my skillset to the appropriate team to avoid resolution delays.
- Facilitated the troubleshooting process of complex issues by analyzing system execution traces.
- Researched new methods to effectively solve commonly reported issues and shared them with teammates.

Education

Master of Research

Computing - major in machine learning

Atlantic Technological University, Galway, Ireland (2022-2024)

Bachelor of Engineering

Computer Engineering (GPA of 4.6 out of 5.0)

Federal University Oye-Ekiti, Ekiti State, Nigeria (2014-2020)

Skillset

Data Analysis:

Tools: SPSS, Excel, Jupyter Notebook, PowerBI, Pycharm

Technology - Tensorflow, Pytorch, Scikit-Learn, ONNX, PySpark, MapReduce, Hadoop

Deep Learning - Graph Neural Networks, Deep Reinforcement Learning, Convolutional Neural Networks, NLP

Supervised Algorithms - Support vector machine, Logistic regression, Random Forest Classifier, K-Nearest Neighbour.

Unsupervised Algorithms - K-Means Clustering

Data Visualization - Matplotlib, Seaborn

Model Evaluation Metrics - Confusion Matrix, Recall, F1-Score, Precision, Accuracy, AUC, ROC

Database Design - NoSQL, MySQL

Object Oriented Programming - Java, Python, C++

Additional Knowledge - Javascript, HTML, CSS, RESTAPI, Git, NodeJS, ReactJS

Selected Publications

- Heterogeneous graph transformer for advanced persistent threat classification in wireless networks. 2023 IEEE Conference on Network Function Virtualization and Software Defined Networks (NFV-SDN). Available online: <https://doi.org/10.1109/NFV-SDN59219.2023.10329745> .
- Deep reinforcement learning for the detection of advanced persistent threats in wireless networks. 31st Irish Conference on AI and Cognitive Science. DOI: [10.1109/AICS60730.2023.10470498](https://doi.org/10.1109/AICS60730.2023.10470498).
- Wireless Sensor Networks Calibration using attention-based gated recurrent units for air pollution monitoring. 2023 IEEE Big Data Conference. DOI: [10.1109/BigData59044.2023.10386318](https://doi.org/10.1109/BigData59044.2023.10386318)

Certifications

- Software Development Life Cycle (SDLC) |Udemy| 2023
- Technical Support Fundamentals |Coursera| 2021
- AWS Solution Architect |AWS| in progress
- Microsoft Azure Fundamentals |Microsoft| 2024

Honors & Awards

- Awardee of the 2023 IEEE NFV-SDN Student Travel Grant |Germany| 2023
- Awardee of the Stefan Banach Postgraduate Scholarship |Poland| 2022
- Awardee of the Research-Based Scholarship at Atlantic Technological University |Ireland| 2022

Hobbies & Extracurricular Activities

- Biking
- Soccer
- Hiking

References

Available on Request