**Bright Kwadwo Boadu**

**AI/ML and SOFTWARE ENGINEER**

Tel: +1-416-566-4138 | Email: [brbojr@gmail.com](mailto:brbojr@gmail.com)

LinkedIn: <https://www.linkedin.com/in/bright-kwadwo-boadu/>

GitHub: https://github.com/bkjboadu

Location: CANADA

**PERSONAL STATEMENT**

I am a highly skilled AI/ML Engineer with expertise in machine and deep learning algorithms, programming languages, and data analysis. Experienced in developing and implementing models for real-world applications, with a focus on driving innovation and solving complex problems. Proficient in popular AI/ML libraries and frameworks, ensuring efficient model development and deployment. Strong problem-solving abilities, collaborative mindset, and a passion for staying at the forefront of advancements in the field. Committed to contributing to the development of intelligent systems and making a positive impact in the industry.

**EXPERIENCE**

**AI / ML ENGINEER, YINSON PRODUCTION WEST AFRICA LIMITED, Takoradi**

**October 2020-April 2023**

* Implemented machine learning algorithms such as neural networks, support vector machines, and clustering.
* Used algorithms to improve the accuracy of machine learning models.
* Developed and implemented state-of-the-art machine learning models for various projects, including computer vision and natural language processing applications.
* Led a team of data scientists and engineers in designing and implementing a deep learning model for image classification with an accuracy improvement of 15%.
* Conducted extensive data analysis and preprocessing to ensure high-quality input for training and validation.
* Collaborated closely with cross-functional teams to understand business requirements and translate them into technical solutions.
* Optimized models for performance, scalability, and resource efficiency, resulting in a 30% reduction in inference time.
* Explored and experimented with new AI techniques, frameworks, and tools to continuously improve model performance and stay updated with the latest advancements.

**SOFTWARE ENGINEER, Freelance**

**October 2021-Present**

* Collaborate with stakeholders, including project managers, designers, and other developers, to gather requirements and understand project objectives.
* Design and develop web applications using the Django framework, following best practices, and coding standards.
* Create and maintain database models, ensuring efficient data storage and retrieval.
* Implement server-side logic and business logic to meet project requirements.
* Develop and consume RESTful APIs to integrate with external systems.
* Write efficient and secure code, conduct thorough testing, and debug and troubleshoot applications as needed.
* Collaborate with front-end developers to integrate server-side functionality with user interfaces.
* Optimize application performance, scalability, and responsiveness.

**INTERN, YINSON PRODUCTION WEST AFRICA LIMITED, TAKORADI**

**July 2019-September 2019**

* Conducted research on deep learning architectures for object detection, focusing on improving accuracy and efficiency.
* Implemented and evaluated novel algorithms and techniques, achieving a 10% increase in mean Average Precision (mAP) on benchmark datasets.
* Collaborated with research scientists to design experiments, analyze results, and interpret findings.

**EDUCATION**

**MASTER OF SCIENCE (M.SC.) IN ARTIFICIAL INTELLIGENCE, INTERNATIONAL UNIVERSITY OF APPLIED SCIENCE, GERMANY, Expected graduation July 2024**

* Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision

**Bachelor of Science (B.SC.) in Mathematics, Kwame Nkrumah University of Science and Technology, June 2020**

* Relevant Coursework: Partial and Ordinary Differential Equations, Probability and Statistics, Numerical Analysis

**SKILLS**

* Programming: Python, JavaScript, C
* Web Frameworks: Django
* AI/ML Libraries: TensorFlow, Keras, scikit-learn.
* Data Manipulation: NumPy, Pandas
* Visualization: Matplotlib
* Computer Vision: OpenCV

**PROJECTS**

* Created and deployed a cutting-edge facial recognition system using deep learning algorithms, enabling real-time access control with exceptional accuracy and minimal latency.
* Developed a sophisticated chatbot utilizing natural language processing techniques, resulting in a significant 50% reduction in response time for customer support interactions.
* Implemented a highly effective recommendation system for a movie streaming platform, leveraging collaborative filtering methods to enhance user engagement and satisfaction.
* Engineered a real-time face detection system using advanced deep learning techniques, delivering superior accuracy and near-instantaneous results.
* Designed and implemented a real-time mask detection system using TensorFlow and TensorFlow Object Detection Model API, contributing to public health and safety during the COVID-19 pandemic.
* Developed a sign detection system combined with action recognition using TensorFlow, enabling precise and efficient recognition of gestures and actions for various applications.

**LANGUAGES**

* English

**REFERENCES**

Available upon request