Bright Kwadwo Boadu

AI/ML and SOFTWARE ENGINEER

Tel: +1-416-566-4138 | Email: 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