Benjamin Ogbonna

Machine Learning Engineer

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Portfolio | LinkedIn | GitHub

PROFILE

Enthusiastic and results-driven Software Engineer with 4+ years of experience in designing, developing, and deploying robust software solutions. Transitioning into the dynamic field of Artificial Intelligence (AI), I have immersed myself in data and machine learning to deliver innovative solutions. Proven ability to build scalable systems, develop machine learning models, and collaborate across teams to achieve business objectives. Passionate about leveraging AI to solve complex challenges and drive measurable impact.

SKILLS & COMPETENCE

Programming: Python, JavaScript, PHP, R, SQL
Machine Learning: Regression, Classification, Clustering, Neural Networks, Computer Vision, Natural Language Processing (NLP)
Deep Learning: Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Generative Adversarial Networks (GANs), Retrieval Augmented Generation (RAG)
Frameworks & Libraries: Tensorflow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Django & Django Rest, Node.js & Express.js
Tools & Platforms: AWS, GCP, Docker, Kubernetes, Terraform, Jupyter, Hadoop, Apache Spark
Databases: MySQL, PostgreSQL, MongoDB
Data Visualization: Matplotlib, Seaborn, Plotly
Version Control: Git, GitHub
Others: Data Structures and Algorithms, RESTful APIs, Agile, Test-Driven Development, CI/CD
Relevant Courses: Machine learning, Deep learning, Algebra, Calculus, Probability, Statistics
Soft Skills: Leadership, Time Management, Excellent Communication and Collaboration Abilities, Problem Solving and Analytical Skills, Goal Oriented
Volunteering: Pie & AI, Django Girls, Python weekend, GDSC

EXPERIENCE

Ambassador, Pie & AI (Deeplearning.ai) | 2023 – Present
- Advocated for AI adoption through community engagement, mentorship, and training sessions, growing community participation by 30%.
- Hosted workshops on machine learning and deep learning concepts, impacting over 1000 participants globally.

Co-Founder / Backend Engineer, Cheaper Shop | 2022 – Present
- Designed and implemented scalable backend systems, improving server performance and handling a 40% increase in user traffic.
- Developed and deployed RESTful APIs, enabling seamless platform interactions and improving response times by 25%.
- Collaborated with cross-functional teams to define technical requirements, resulting in a 20% increase in platform user retention.

Software Engineer, University of Abuja Health Services | 2022
- Built a web application for scheduling appointments and managing patient data, increasing efficiency by 75%.
- Improved system reliability by implementing a fault-tolerant architecture, reducing downtime by 40%.

Lead, Google Developer Student Clubs (GDSC) | 2021 – 2022
- Organized 15+ workshops and coding sessions, reaching over 500 students and developers.
- Organized tech events such as DevFest and Google I/O, enhancing community awareness by 45%.

Project Officer, Aspilos Foundation | 2021
- Trained 50+ participants on web development and data science, with 85% completing their projects successfully.
- Provided mentorship and resolved project challenges, improving project completion rates by 60%.

PROJECTS

AI Agent System | Link
- Developed an AI-powered web app enabling users to upload and interact with documents through a smart chat interface, processing over 95% of queries with accurate, context-aware responses.
- Designed a responsive UI that enhanced accessibility across devices, reducing document navigation time by 60% through intelligent content extraction and natural language understanding.

Plant Disease Detection System | Link

- Designed a CNN-based computer vision model achieving 85% accuracy for real-time plant disease detection.
- Developed a web app integrating the model, facilitating easy image capture and disease identification.

Face Expression Detection App | Link

- Created a real-time face expression recognition system with 70% accuracy and minimal latency.
- Deployed the model into a user-friendly application, improving accessibility for mental health assessments.

Drowsiness/Sleep Detection system | Link

- Implemented a vision-based system to detect driver drowsiness, reducing accident risks.
- Used OpenCV and TensorFlow to ensure real-time alerts and high reliability.

PUBLICATIONS

- **Disease Detection on Selected Plants Using CNN** – Intl. Research & Development Conference, Kampala Intl. University, Uganda | 2023
- **Plant Disease Detection Using CNN** – African Journal of Agriculture & Allied Sciences | 2022

EDUCATION & CERTIFICATIONS

B.Sc. in Computer Science – University of Abuja, Nigeria |2023
Machine Learning in Production – Deeplearning.AI (Coursera) | 2024
Udacity Data Analyst Nanodegree – Udacity | 2022
Machine Learning – Stanford University (Coursera) | 2022
AWS Fundamental in Machine Learning – Udacity | 2020