Curriculum Vitae

ALFRED IBE

IBE ALFRED (IA)

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SKILLS

Data analysis, Data analytics, Machine Learning Engineer, Full stack Web Developer, Spring boot backend Developer
Dedicated data analyst and machine learning Engineer with experience in Python, Java, HTML, CSS, JavaScript React, Arduino Passionate about technological Innovation, problem-solving, and Logical analysis.

WORK EXPERIENCE

NITDA•Nigerian Information and Technology Development Agency: **01/2024 - 05/2024**
Intern

- Got practical experience in deep learning, machine learning and embedded systems, focusing on the development and implementation of innovative, technology-driven solutions and successfully built and completed 3 projects namely: Dog breed Identification system and Face Recognition System and a home automation system.
- Contributed to two diverse projects involving system automation and data analysis (as a Team Lead) in the above projects demonstrating ability in streamlining processes and extracting actionable insights from complex visual datasets and numerical dataset using techniques such as data visualisation, Regression Metrix etc.

Solvex
Machine learning/Data analyst
   • Ccontributed to development projects focused on automation and data processing, using technical ability to improve workflows and enhance data-driven decision-making.

Solvex
Front end Developer

• Designed and launched over 2 innovative, responsive website layouts for Solvex increased user engagement by 25% through responsive website designs implementing interactive features and prioritizing best performance across all devices to bolster brand presence.

EDUCATION

B.Sc. in Computer Science University of
Nigeria Nsukka (UNN).

CERTIFICATIONS

HTML •04/2021 - 12/2024 Solo-Learn

CSS•04/2021 - 05/2021 Solo-Learn

Java Programming Language•07/2020 - 11/2020 Solo learn

Machine Learning, Deep Learning and Embedded System NITDA

Deep Learning Nvidia.

PROJECTS

Front-end Web Design

Analysed and showed layout inefficiencies on four key website platforms alongside design and development teams using HTML, CSS, JavaScript and bootstrap, leading to the rectification of three major navigation obstacles reported by users through targeted testing sessions.

Customer Account prediction Model parameter fine-tuning•12/2024 - 12/2024 **Zingi**

Tasked with enhancing the accuracy of a predictive model that determines whether a person has an account number. Achieved significant performance improvements of 15% by employing a total of 3 advanced fine-tuning techniques such as Grid-Search, Evolutionary and Bayesian Optimization Algorithm.

Front-end web designs

Created captivating, innovative, and responsive website designs for Clients in Solvex Using HTML, CSS, JavaScript and Bootstrap, prioritizing user experience, modern aesthetics, and cross-platform compatibility to enhance brand presence and engagement.

Face Detection System

Engineered a real time facial recognition system leveraging python deep learning Libraries like OpenCV and TensorFlow, enhancing user authentication speed by 40% and reducing manual verification efforts by 30 hours monthly.

Home Automation System

Engineered and implemented a comprehensive IoT-enabled home automation system using Arduino micro controller, integrating smart sensors and actuators for automated lighting, temperature control, and security monitoring. Designed a user-friendly interface for seamless remote control and real-time status updates using the Arduino terminal, enhancing convenience and energy efficiency for smart home management while working in NCAIR National Centre for Artificial Intelligence and Robotics.

Dog Breed Identification System

Developed an advanced machine learning model for exact dog breed classification, utilizing OpenCV for real time image extraction and utilised tensor-flow for image preprocessing and recognition, enabling high-precision analysis of real-world canine images the model had an accuracy of 89%.

Customer Churn Prediction System

Designed and implemented a machine learning model to predict customer churn by analysing behavioural patterns, enabling businesses to proactively find at-risk customers and enhance retention strategies, the model had an accuracy of 93%.

QR-code payment System

Designed and developed a QR code payment System using bootstrap for the front-end and Java Spring boot frame work for the backend, used jwt authentication logic to implement the login logic making it secure implemented methods from Java zxing library to allow users scan QR codes and generate them making payment Easy, portable, faster, reliable and transparent.

VOLUNTEERING & LEADERSHIP

NITDA •01/2024 - 03/2024
Team Lead• Bwari, Abuja

I lead the team assigned to Dog breed Identification System project and the Data analysis projects in NCAIR-National Centre for Artificial Intelligence and Robotics. I successfully lead the retrieval of 10,000 Dataset for the Deep learning model, We went through each phase of the training from the data cleaning to the Feature selection to the training of the model.

SKILLS

- Python (Machine learning, Deep learning, Data Science) – Beautiful soup, Pandas, NumPy, Matplotlib, Tensor-Flow, Sci-kit learn, SciPy etc.

- Java (Back-end web development) – Java Spring boot: Spring web services, Spring Security, Spring boot Thyme leaf, Lombok, Spring Data JPA, etc.

- HTML (Front-end web development) - html 5, bootstrap@5.3.0, tailwind.

- CSS (Front-end web development) - SASS, bootstrap@5.3.0, tailwind.

- JavaScript (front-end web development) - Vanilla JavaScript, Bootstrap, tailwind.

- SQL - (Backend web development)- PostgreSQL, MongoDB,

CERTIFICATIONS

- Nvidia: Fundamentals of Deep Learning

- Solo-Learn: HTML, CSS, Java and JavaScript

- Udemy: Java Spring boot for Backend Development

- Udemy: Machine Learning and Deep learning