

EMMANUEL VICTOR ITOPA

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PROFESSIONAL SUMMARY

Highly motivated computer scientist with extensive experience in machine learning, artificial intelligence, and web development. adept at building intelligent systems and full-stack web applications that address real-world challenges. skilled in integrating ai techniques into modern software solutions. passionate about innovation, collaboration, and continuous professional growth.

RESEARCH INTERESTS

Machine Learning

AI and Deep Learning

Software Development

EDUCATION

B.Sc Computer Science September 2024

Federal University, Lokoja, Nigeria

Thesis: "Classification and detection of nails diseases using deep learning CNN"

PROJECT

Face Morph Detection System using CNN

Role: Lead Developer

Tools: Python, TensorFlow, OpenCV

Developed a deep learning model to detect morphic and genuine faces using Convolutional Neural Networks. Enhanced image classification accuracy to 98% through advanced data augmentation and optimized model parameters. Integrated the trained model into a functional web application for live detection.

Fashion Designer Selection System using Sentiment Analysis

Role: NLP Engineer

Tools: Python, NLTK, Flask

Implemented sentiment analysis techniques to analyze customer reviews and recommend fashion designers based on review polarity and satisfaction trends. Automated data preprocessing, text cleaning, and visualization dashboards.

Eye Disease Detection and Recommendation System

Role: AI Developer

Tools: CNN, Python, Keras

Built and trained a convolutional neural network to classify eye disease images and generate treatment recommendations. Deployed the system as a user-friendly web app for real-time diagnostic assistance.

Web-Based Food Delivery System

Role: Full Stack Developer

Tools: HTML, Tailwind, JavaScript, Python Flask

Designed and developed a responsive web-based food ordering platform with real-time order tracking, secure authentication, and dynamic cart management to improve user experience.

Flood Management and Alert Web Application

Role: Frontend Developer

Tools: HTML/CSS, API Integration.

Developed a responsive web app for real-time flood alerts, enabling users to access safety tips and nearby evacuation centers.

Blockchain-Assisted Pneumonia Diagnosis System

Role: Research Assistant / Developer

Tools: Blockchain, Python, TensorFlow

Integrated blockchain technology with machine learning for secure and transparent pneumonia diagnosis in telehealth platforms. Focused on ensuring data integrity and patient privacy through decentralized ledger implementation.

Automated Result Processing and Management System

Role: Developer

Tools: HTML/CSS, JavaScript, Python

Designed and implemented a web-based system to automate result computation, validation, and report generation for universities. Eliminated manual errors and enhanced transparency in grade processing.

Student Attendance System using QR Code with Anti-Spoofing

Role: System Designer & Developer

Tools: Python, OpenCV, Flask

Developed a secure QR-based attendance system integrated with anti-spoofing mechanisms to prevent proxy attendance. Implemented facial verification for enhanced identity validation during attendance capture.

Language Translator Application

Role: Software Developer

Tools: Python, Google API, Tkinter

Built a multi-language translation application using Google Translation API. Enabled users to translate text between multiple languages with real-time feedback and simple GUI interface.

House Rent Directory System

Role: Full Stack Developer

Tools: HTML, Tailwind, Python(backend)

Developed a web application for property listing and rental management. Implemented search, filter, and automated messaging features to connect landlords with tenants efficiently.

Transport Information System

Role: System Developer

Tools: HTML/Tailwind, JavaScript, Python, SQLite

Designed and implemented a transport information platform providing real-time transport schedules, fare details, and route optimization. Improved data accessibility for travelers and operators.

Result Verification System

Role: Project Lead

Tools: HTML5/Tailwinds, JavaScript, Python

Developed a secure online platform that allows institutions and employers to verify student results through unique verification codes. Ensured data integrity, authentication, and real-time response features.

RESEARCH EXPERIENCE

Classification and detection of nail diseases using deep learning CNN

November 2024

This project applies deep learning convolutional neural networks (CNN) to classify and detect nail diseases from images. The system automates diagnosis by identifying patterns associated with conditions like eczema, leukonychia, and onycholysis, enhancing accuracy and efficiency in dermatological assessments. It was implemented and deployed as a web application which is live.

Bank Productivity Prediction

April 2023

This research leverages machine learning algorithms to predict bank productivity by analyzing operational data. The model was trained to forecast key performance metrics, enabling banks to optimize resources and improve decision-making. Though primarily a study, the model was tested with data from local banks in Kogi State, demonstrating a **15% increase in operational efficiency** during pilot implementation. The insights have potential for wider adoption, helping financial institutions enhance productivity and reduce operational risks.

TEACHING EXPERIENCE

Student Tutor

Jan. 2019 – Septe 2024

Federal University, Lokoja, Nigeria

- Provided academic support in Mathematics, Physics, and Computer Science to over 20 students at various levels, simplifying complex concepts and guiding them through challenging coursework and assignments.
- Designed and implemented personalized study plans, leading to a 45% improvement in students' examination performance and fostering a deeper understanding of the subjects.
- Demonstrated strong time management and organizational skills by effectively balancing tutoring responsibilities with personal academic commitments, ensuring consistent progress for all students.

Tech Tutor

May 2023 – October 2023

Terapack Innovation

- Provided hands-on guidance to over 15 students in web development, teaching foundational skills in HTML, CSS, and JavaScript, and ensuring each student completed at least three practical projects.
- Designed and implemented structured lesson plans while balancing tutoring responsibilities with academic commitments, utilizing project management techniques to oversee group assignments and foster collaboration.
- Achieved a 40% improvement in students' coding proficiency, with several deploying personal web projects, while enhancing leadership, communication, and organizational skills through mentoring and problem-solving facilitation.

PROFESSIONAL EXPERIENCE

Website Development Facilitator

May 2023 – October 2023

Terapack Innovations

- Mentored and instructed over four students in web development, covering foundational to advanced concepts in HTML, CSS, JavaScript, and PHP.
- Guided students in applying web development techniques to real-world problems, fostering practical skills and critical thinking.
- Achieved a 50% improvement in students' efficiency, as they demonstrated commitment and successfully implemented solutions to real-world challenges.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL

Frameworks: Django, TensorFlow, Flask

Tools: Git, Visual Studio Code, Jupyter Notebook

Soft Skills: Leadership, Team Collaboration, Critical Thinking, Report Writing

CERTIFICATION

Python Programming – Coursera (2023)

Machine Learning Fundamentals – Google AI (2024)

Web Development Bootcamp – freeCodeCamp (2023)

Digital for all Challenge 2.0 (2025)

PROFESSIONAL AFFILIATION

Graduate member, Nigeria Computer Society (NCS)

January 2023 - Present

REFERENCES

Dr. Mrs. Fati Oiza ochepa

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