Chibuzo Valentine Nwadike

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SUMMARY

Passionate about Innovation, responsible, self-motivated, resilient, highly talented, and thoroughbred technology professional keen on building and shipping innovative products geared toward simplifying, automating and generally improving life. Seeking for Machine Learning, Computer Vision/Deep Learning internship positions.

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL — Expected December 2023
Master in Artificial Intelligence
Relevant Courses: Application Software design, AI in Smart Grid, Control System, Robust Control, Machine Learning & Deep Learning, Computer Vision, Image processing, Digital Signal processing, Cyber Security, AI for edge computing, Object Oriented Programming and Machine Learning, IoT and Cyber Physical Systems, Microcomputers/Embedded Computing.

UNIVERSITY OF NIGERIA — 2010 - 2015
Bachelor of Engineering in Mechanical Engineering

SKILLS

PROGRAMMING LANGUAGES: Python, C++ , MatLab, Java, React, R
MACHINE LEARNING/DEEP LEARNING ALGORITHMS: Linear Regresion, Ridge and Lasso, Logisitic Regression, Decision Tree, Random Forest, Adaboost, Xgboost, SVM, KNN, Naive Bayes and Gradient Boost, kmeans Clusterin, DB Scan, Principal Component Analysis, Linearn discriminant Analysis, KNN Clasification, Autoencoders, CNN, RNN and GAN..
MACHINE LEARNING /DEEP LEARNING LIBRARIES: NumPy, Scikit-learn, Scipy, Pytorch, TensorFlow, Keras, Pandas, Numpy, OpenCV, Kubeflow, U-Net, ResNet, VGG16
DATA BASES: MySQL, SQLite, Tableau
WEB DEVELOPMENT: WordPress, HTML, CSS
CHATBOT: DialogFlow, IBM Watson, Microsoft Virtual Agent
OTHER TECHNICAL SKILLS: Knowledge of Google Suite, Android development, knowledge in digital logic circuit, knowledge in DSP concepts & memory types, knowledge of FPGA, Experience with live streaming or podcast creation, Knowledge of filters & Noise reduction in DSP.
CONTROL SYSTEM: Knowledge of Electrical Sytems Modeling and OPAMP, Knowledge of Mechanical Systems Modelling, Knowledge of Adjusting PID Controller Parameters, Blcok Diagram Simplification.
COMPUTER VISION: Histogram Matching, Histogram Eqalization, Segmentation, Filtering, Pattern Classification, Object detection, Edge detection, and Convolutional Neural Network, Open CV

CERTIFICATIONS

- Machine Learning with Python - IBM
- Android Developer - Google
- ChatBot Developer - IBM

EXPERIENCE

Illinois Institute of technology — 2021 - Present
Student Assistant at Keating Centre — Chicago, Illinois/United States

- Supervise students during Varsity sports events and daily athletics.
- Coordinate and set-up Varsity sports event.
- Maintain and supervise keating facilities (gymnasiums, athletic fields and associated areas).

Tag Control Coy Ltd — 2019 - 2021
Automation Engineer(Junior) — PortHarcourt/Nigeria

- Assist Senior Automation Engineers in developing, testing and validation of deep learning models to automate production in petrochemical plant.
- Execute design prototyping, including field implementing and testing.
- Perform basic troubleshooting of communication networks and wiring issues with PLCs.
- Assist Senior Automation Engineers in Control software development, include developing machine control algorithms for PLC based systems.

Fadings Global Energy Limited 2017 - 2019
Non Destructive Testing Engineer PortHarcourt/Nigeria

- Conduct Integrity test involving Magnetic Particle Inspection, Ultrasonic Test on high pressure oil and gas pipelines and well heads according to international and local standards.

Halliburton Energy Services Nig Ltd 2014 - 2015
Production Enhancement Engineer Intern PortHarcourt/Nigeria

- Assist in Design Recommendations customers using Cypher Complex Fracturing Modelling for higher assets production.

PROJECTS

Illinois Institute of Technology

Smart IoT Hub

- Leveraged Java full stack web application frameworks to develop a smart hub for Internet of Things (IoT). The IoT_Hub consists of a frontend web application that allows users to control and monitor their IoT devices. Also, a server backend is built as a Spring Boot application to provide RESTful services to the frontend web application. It can also communicate with one or more IoT simulators via MQTT broker to control and report its status. After passing identity verification during user login, a user can get into the dashboard page to monitor the state and power consumption of each switch in real time through the web page on their phones or tab. A user can also see the real-time information of plugs, and also can click the button in webpage to control them directly. This IoT_Hub is compatible to work with devices of any type of vendor.

Loan Applicant Classifier

- Built a classifier to predict whether a loan case will be paid off, applying four different classification models, K-N Neighbour, Decision tree, Support Vector Machine and Logistic Regression algorithms with an accuracy of approximately 93% for each classification methods.

Movie Recommender

- Developed a recommendation system with 96% accuracy using collaborative filtering technique. It utilizes other users to recommend movies to the input, by finding user with similar preferences and opinion as the input.

Drug Prescription Model

- Utilized Decision tree classification algorithm to build a model from historical data of patients, and their response to different medications. The trained decision tree predict the class of an unknown patient, or find a proper drug for a new patient with 96% accuracy.

Customer Churn Model

- Developed a customer churn model for a telecommunication company leveraging Logistic regression, to predict when its customers will leave for a competitor, so that they can take some action to retain the customers.

Human Cell Classification

- leveraged SVM (Support Vector Machines) to build and train a model using human cell records, and classify cells to whether the samples are benign or malignant with 95% accuracy.

University of Nigeria

Remote controlled Solar Powered Lawn Mower

- Modelled systems with Autodesk Inventor. Utilized Proteus and MatLab programming to design and simulate control systems. The mower uses vision based system to see and dodge obstacles during operation