

Peace Ishola

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Data Science | Machine Learning | Software Engineering

I'm a Grad Student at Oklahoma State University studying computer science. I had my bachelor's program in Computer Science with Second Class Upper at Les Cours Sonou University Institute, Benin Republic. My bachelor's thesis focused on optimization of inventory systems using Java, and MySQL. I have also gained expertise in machine learning and software engineering through coursework and practical experience. I am seeking a challenging opportunity to utilize my skills and knowledge in a professional setting. My coursework and projects have given me a strong foundation in data analysis, computer programming, and problem-solving, and I have applied these skills through internships and graduate research.

Skills

Programming: MATLAB, Java, MySQL, Python, SPSS, Next.js, React, Material UI, AWS, Hadoop

Machine Learning: TensorFlow, Scikit-Learn, Keras

Visualization: Microsoft Excel, Matplotlib, Seaborn, Tableau

Experience

Software Engineer Intern (May 2022 – August 2022)

University of Phoenix – Phoenix, Arizona, USA.

- Designed and developed an interactive interface for a job recommendation system using Next.js, React and Material UI.
- Employed AWS CodePipeline and AWS CodeBuild to streamline the continuous integration and delivery process for the web application via automation.
- The application resulted in a 45% improvement in loading time and a 20% increase in conversion rate. Additionally, user rating increased from 3.7 stars to 4.3 stars.

Data Engineer (September 2017 – December 2020)

Integrity Super Mart – Ibadan, Nigeria.

- Employed Java programming to design and develop an inventory control system.
 - Built a database for the product inventory with MySQL database management system.
 - Perform periodic evaluations of the inventory control system to verify its optimal functionality and precision.
 - The deployed inventory control system reduced processing time of inventory levels and order processing by 95% while completely removing systematic errors in calculating stock turnover rate and order fill rate.
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Education

PhD Computer Science (January 2021 - Present)

Oklahoma State University – Stillwater, OK.

Research Paper: Assessing Machine Learning Models' Effectiveness in Predicting Fluid Intelligence through Feature Selection and Functional Connectivity Analysis of Interrelated Brain (CSCE 2023: Under Review)

- Identified parts of the brain that controls fluid intelligence using various feature selection techniques.
- Demonstrate how various brain regions communicate with one another.
- Prioritized data points for efficient learning and adaptation in decision-making with feature importance.

- The mean square error on fluid intelligence prediction improved by 11% using a decision tree model and 12% using a random forest model, compared to previous approaches.

Project: Web-Based Inventory Management System with Dynamic User Interfaces and Reliable Data Storage Using MySQL

- Developed and designed an inventory control system using React programming.
- Designed an Entity-Relationship Diagram (ERD) for the database and then transformed the ERD into a set of tables in Boyce-Codd Normal Form (BCNF).
- Built a database for the product inventory with MySQL database management system using views, triggers, and stored procedures.
- The implementation of the inventory control system shortened the duration it took to process inventory levels and update inventory lists which increase the system efficiency compared to the application by 20%.

Project: Implementation of Graph Analysis of Blockchain Transactions and Their Trends

- Novel graph analysis for understanding Blockchain transaction trends, including gas usage and effective paths with low fees.
- Applied Depth-first search and Kosaraju algorithm to find strongly connected nodes.
- Applied Dijkstra and Kruskal algorithms to find shortest path and minimum spanning tree in graph, considering gas fee.
- Testing query on blockchain dataset, analyzing transaction trends and gas prices.

BSc Computer Science (September 2014 - August 2017)

Les Cours Sonou University Institute – Cotonou, Benin Republic

Project: Design and implementation of an inventory control system

- Developed an inventory application using JAVA and MySQL.
- The application utilizes various functionalities to monitor and manage inventory, including, tracking inventory levels, calculating stock turnover rate, determining the average time between orders, measuring ordering processing time, and calculating order fill rate.
- Inventory application increased efficiency in taking inventory of stock by up to 90% according to the criterion known as the turnover ratio.

Project: A Quantitative Investigation into the Relationship between Car Prices and Car Advertisements in Lagos, Nigeria through Regression and Correlation Analysis.

- Utilized SPSS to conduct regression and correlation analysis to help determine how car pricing is influenced by its degree of advertisement.
- Deduced an average 21% markup of prices after advertisement using statistical tools.
- Calculated a correlation coefficient of 0.85 between the markup in car prices and degree of advertisement of the respective cars.

Licenses & Certifications

Tableau Desktop Specialist (April 2023)