IJEGWA DAVID ACHEME
Lecturer and Data Scientist

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PROFESSIONAL SUMMARY

I am an educator and data science specialist with over six years work experience in the University. I have a Bachelor's degree in Statistics/Computer Science, Master's degree in computer and the IBM Data Science professional certificate. I am Skilled in Python and Java programming languages as well as SQL. My work has focused on Data Analysis, Data science and Machine learning models for decision support and predictive systems. Kindly visit my personal website @ https://ijeggs.github.io for my most recent works and projects.

SKILLS

Programming with Python and Java; Relational Database Manipulation With SQL; Data Analysis And Visualization with Python and Tableau; Building and deployment of Data Science /Machine Learning models on Cloud and Web; Working with location GIS datasets Using Folium And Geopy. Predictive Modelling with Scikit-learn, IBM Cloud AutoAI (Watson Studio); Academic research, publications and presentation

EXPERIENCE

DATA SCIENCE INTERN COHORT 20-01(JUNE - DECEMBER, 2020)
June – December 2020
Remote Data Science Internship at Hamoye.com

LECTURER/RESEACHER

May 2016 - present | Edo University Iyamho , Nigeria

Teaching and curriculum development for undergraduate courses in computer programming, data visualization, data analysis and machine learning.
Working with students in class rooms, laboratories, and small study groups to provide academic support.
Tracking students' learning process in order to identify opportunities to enhance tutoring methods and help students achieve their learning goals.

DATABASE ADMINISTRATOR, WEBMASTER AND TUTOR

Dec 2012 - Apr 2016 | Nigerian Army Institute of Technology, Nigeria

Configuration, implementation and maintenance of all the IT technologies of the institution
Management of the networks system performance
Set up and controlled user profiles and access levels for each database segment to protect important data.
Administered, supported and monitored databases by proactively resolving database issues.
Tested programs and databases to identify issues and make necessary modifications
Teaching Introductory programming in Java

Field Verification Agent

Feb 2012 – Dec, 2012 | Dragnet Solutions, Lagos

Verification of Students academic profile in Higher Institutions in Ogun State for the award of scholarships

EDUCATION

MSc. COMPUTER SCIENCE
Federal University of Agriculture, Abeokuta , Nigeria | Graduated in 2015

BSc. STATISTICS AND COMPUTER SCIENCE
University of Agriculture, Makurdi , Nigeria | Graduated in 2010

PROJECTS

ANALYSIS AND SHORT-TERM FORECAST OF COVID-19 SPREAD I NIGERIA
In this work the objective was to understand outbreak of COVID-19 in Nigeria, I carry out a comparison of the cases in Nigeria with other African Countries, Furthermore I carried out a Comparison with worst affected countries in Europe and America. Finally using four Machine Learning and Time Series Forecasting models I present a short-term forecast (June 4 -20th, 2020) of Covid-19 spread in Nigeria with minima RMSE. https://ijeggs.github.io/NigerianCovid-19Forecast.html

ANALYZING CHINESE RESTAURANTS IN LAGOS NIGERIA
In This Project I set out to explore Chinese restaurants around a foremost Nigerian Hotel and to rank them based on user ratings. This would have presented an evidence based recommendation data to people desirous of Chinese delicacies within that neighborhood. I used the foursquare API to retrieve real location which was displayed on the geographical map of the area in Lagos. https://ijeggs.github.io/chineseRest.html

MACHINE LEARNING MODELS FOR PREDICTING SURVIVABILITY OF COVID-19 PATIENTS
In this project I built machine learning models for the prediction and visualization of the significant factors that determine the survivability of COVID-19 patients. The prediction models are decision trees, logistic regression, gradient boosting, and logistic regression algorithms. The work is accepted and published as a book chapter by ELSEVIER in DATA SCIENCE FOR COVID-19 the model was implemented on IBM Cloud Using IBM Watson Studio https://github.com/ijeggs/Predicting-Survivability-of-COVID_19-Patients

A MACHINE LEARNING MODEL FOR PREDICTING LOAN DEFAULT
This project demonstrated the use of Different Classification Algorithms to build a prediction Model The Following Classification Algorithms are used K-Nearest Neighbor KNN, Decision Trees DT, Logistic Regression LR Support Vector Machine SVM. Using historical customer data, the trained model is able to predict new cases likelihood of loan default to 80% correct prediction. https://github.com/ijeggs/loan-defualt-prediction-model/blob/master/Loan_Default_Prediction.ipynb

CERTIFICATIONS

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE
https://www.coursera.org/account/accomplishments/professional-cert/SX65C6Z8ALHQ
Training in Python, SQL, Data Visualization and Analysis, and created Machine Learning models. In the process completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate the knowledge and skills in data science.

ACADEMIC PUBLICATIONS

Ayodeji S.M., Vincent O.R. Akinwale A.T., Adebayo O & **Acheme D.I (2020)** *An Improved Customer Relationship Management Model for Business-to-Business E-commerce Using Genetic-Based Data Mining Process*. **In proceedings 2020 International Conference in Mathematics, Computer Engineering and Computer Science (ICMCECS***)* 2020; March 18-21, Anchor Univesity Lagos Nigeria

Acheme D.I., Vincent O.R., Olusegun O.& Japheth B. R. (2018) *A Bayesian Based System for Evaluating Customer Satisfaction in an Online Store*. In proceedings **Intelligent Systems Conference IntelliSys** 2018; September 2018 London, *UK*. http://link-springer-com-443.webvpn.jxutcm.edu.cn/chapter/10.1007/978-3-030-01057-7_78

Japheth B.R. & **Acheme D.I**. (2017) *Defining a DSL for Transmission Pipelines Systems Metamodeling* In proceedings **Future Technologies Conference (FTC)** ***2017 29-30*** **November 2017, Vancouver, Canada.**

Acheme D. I., Vincent O.R., Folorunso O., Olusola O. I., (2014) "A Predictive Stock market Technical Analysis Using Fuzzy Logic" *Computer and Information Science,* Vol. 7 No 3. http://www.ccsenet.org/journal/index.php/cis/article/view/38484/0

Ushie P.O. Ukhurebor K.E., Ukagwu K.J., & **Acheme D.I. (2017)** *Investigation of the Effect of Stage cascade on Amplifier Circuits in a Common Emitter Configuration Using Bypass and Non-bypass Capacitors* **Journal of the Nigerian Association of Mathematical Physis,Vol 39 pp 319 – 326**. **http://e.nampjournals.org/product-info.php?pid2802.html**

Acheme D.I. (2015) "An Agent-Based Stock Market Prediction Model Using Fuzzy Logic" **An M.Sc. Thesis Submitted to the Federal university of Agriculture, Abeokuta**.