

Ijegwa David Acheme

Lecturer and Data Scientist

✉ ijeggs@gmail.com 📞 +2348062889197 🏠 Department of Computer Science, Edo University Iyamho
in www.linkedin.com/in/ijegwa-acheme 🐦 @ijeggs 📧 ijeggs

PROFESSIONAL SUMMARY

I am an educator and data scientist with over six years of teaching and research in the University, with a Bachelors degree in Statistics/Computer Science, Master's degree in computer and the IBM Data Science professional certificate. Have taught undergraduate courses in programming languages and databases and skilled in Python and Java programming languages as well as SQL. My research effort has focused on Data Analysis, building Machine learning models for decision support and predictive systems, with research output published in reputed academic journals and conferences.

EXPERIENCE

ONLINE TUTOR

Nov 2019 - present | LatinHire , America

Assess, teach and support College and High School Students in Python and Java programming
Use email, discussion forums, audio and video conferencing to communicate with learners
Develop online relationship with learners
Provide feedback and answers to learners' questions
Build learners' confidence and independence

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

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 2011 – Dec, 2012 | Dragnet Solutions, Lagos

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

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE

IBM , America | Graduated in 2019 | Merit GPA

Created python applications - Learnt relational databases using SQL & Python - used Python libraries to generate data visualizations - performed data analysis using Pandas - constructed & evaluated Machine Learning (ML) models using Scikit-learn & SciPy and applied data science & ML techniques to real location data sets.

PhD COMPUTER SCIENCE

Federal University of Agriculture, Abeokuta , Nigeria | 2017-Date

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

A MACHINE LEARNING MODEL FOR PREDICTING EMPLOYEE TURN OVER USING IBM WATSON STUDIO

In this project with the IBM Watson Studio on IBM cloud I obtained dataset on employee which was used to create a prediction model after the data preparation. The Model was finally deployed and can be found here:

<https://drive.google.com/open?id=1VWQqLSHM9uCISmwWXrrHGswTMbMBacL8>

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://dataplatfom.cloud.ibm.com/analytics/notebooks/v2/e8c4ac09-4540-4cad-952c-](https://dataplatfom.cloud.ibm.com/analytics/notebooks/v2/e8c4ac09-4540-4cad-952c-7966847143b7/view?access_token=8585634d2f0c75b7d93b27a67391ef89eca9d1a9d2231e80378c0671aa603ba2)

[7966847143b7/view?access_token=8585634d2f0c75b7d93b27a67391ef89eca9d1a9d2231e80378c0671aa603ba2](https://dataplatfom.cloud.ibm.com/analytics/notebooks/v2/e8c4ac09-4540-4cad-952c-7966847143b7/view?access_token=8585634d2f0c75b7d93b27a67391ef89eca9d1a9d2231e80378c0671aa603ba2)

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://github.com/ijeggs/Analysing-Chinese-Restaurants-in-Nigeria>

A STOCK PRICE PREDICTIVE MODEL USING FUZZY LOGIC AND TECHNICAL ANALYSIS

Using MATLAB I built a fuzzy logic system that relied on technical analysis to predict stock price movement of two selected Nigerian Banks. This work can be found here <http://www.ccsenet.org/journal/index.php/cis/article/view/38484/0>

A MACHINE LEARNING MODEL FOR EVALUATING CUSTOMER SATISFACTION

Built a model using Bayesian Networks machine learning for customer satisfaction evaluation for an e-commerce store. The model when trained and deployed for a specific online store serves the need for getting customer feedback and predicts/recommends to managers and business owners the likely aspects of their business that should be improved upon to better satisfy their customers. I presented this model as a paper at the Artificial Intelligence conference (Intellysis, 2018) that held in London UK, Sept 6-7, 2018. https://link.springer.com/chapter/10.1007/978-3-030-01057-7_78

DATA VISUALIZATION PROJECT IN PYTHON

In this projects, I demonstrated data visualization using real life data of International Immigration to Canada from 1980 to 2013. In the First Notebook, I demonstrated the use of Area Plots, Histograms and Bar charts to visualize the data. The Second Notebook presented the use of Python's Geospatial library FOLIUM to generate maps for visualization. GitHub page <https://github.com/ijeggs/Data-Visualization-With-Python>

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.

SKILLS

PROGRAMMING WITH PYTHON AND JAVA; DATABASES WITH MYSQL; DATA ANALYSIS AND VISUALIZATION WITH PYTHON; BUILDING AND APPLICATION OF DATA SCIENCE & MACHINE LEARNING MODELS TO REAL LIFE DATA; WORKING WITH LOCATION DATA SETS USING FOLIUM AND GEOPY.

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.**