HAMMED ABDULSALAM

+2348061356126
hello@iamhamid.com
https://www.iamhamid.com/

11, Prince Adekunle Crescent,
Ikola, Alimosho
Lagos, Nigeria.
100263

RESEARCH INTEREST

Artificial Intelligence in Health
Statistical Inference
Machine Learning
Deep Learning

EDUCATION

MSc Ahmadu Bello University, Zaria, Statistics — February 2018
Second class upper division
Thesis: Transmuted New Weibull Pareto Distribution
Advisor: Professor Isah Audu

BSc University of, Nigeria, Nsukka, Statistics — January 2013
Second class lower division
Thesis: Time Series Analysis of Nigeria Crude Oil Price (Bonny Light) *2006-2011 Using Box-Jenkins Approach*
Advisor: Professor Fidelis Ugwuowo

RESEARCH EXPERIENCE

Graduate student

Ahmadu Bello University, Zaria, Nigeria — 2016-2018
Transmuted New Weibull Pareto Distribution
Supervisor: Professor Isah Audu

- Proposed and developed a novel statistical distribution, the Transmuted New Weibull Pareto Distribution, to improve flexibility and efficiency in modeling real-life datasets.
- Derived the new distribution using the Quadratic Rank Transmutation Map (QTRM) method.
- Analyzed the reliability behavior by studying the survival and hazard functions, and derived structural properties of the distribution.

- Implemented parameter estimation techniques, including Maximum Likelihood Estimation (MLE) and Least Square Estimation (LSE), to compare the efficiency of these methods.
- Conducted comparative analysis of the proposed distribution with the New Weibull Pareto and Pareto distributions using real-life datasets.
- Authored a detailed evaluation of the statistical tests associated with the new distribution, highlighting its significance in applied areas.

Undergraduate Student

University of Nigeria, Nsukka, Enugu State 2008-2012
Time Series Analysis of Nigerian Crude Oil Price (Bonny Light) 2006-2011 Using Box-Jenkin Approach
Advisor Name: Professor Fidelis Ugwuowo

- Applied the Box-Jenkins ARIMA modeling technique to develop a robust model for Nigerian crude oil price data.
- Used Auto-correlation Function (ACF) and Partial Auto-correlation Function (PACF) to identify the best-fit model for the time series data.
- Conducted diagnostic checks to assess the model's adequacy and ensured parsimony in model selection.
- Forecasted crude oil prices for the year 2012 based on the identified ARIMA model.
- Provided actionable insights into the trends and future projections of crude oil prices using statistical techniques.

HONOURS AND AWARDS

Wema Bank Hackaholic (Team Lendse) **2019**
Second runner-up, Nigeria

Staff Excellence Award **2022**
Factual Analytics, Lagos

TEACHING EXPERIENCE

Factual Analytics, Nigeria July 2018-Present
Data Science Trainer

- Designed and delivered tailored training sessions for professionals on advanced statistical analysis and machine learning models.
- Conducted workshops and hands-on sessions using Python, R, SAS,Tableau, and Power BI, focusing on practical applications in business and analytics.
- Developed training materials and case studies to simulate real-world data challenges for learners

- Mentored trainees in the deployment of machine learning models and the creation of dashboards for actionable insights.
- Facilitated learning for diverse groups, including data analysts, statisticians, and business professionals, to upskill their technical and analytical expertise.

Semicolon Africa, Nigeria Nov 2019- Aug 2021
Data Science Instructor

- Designed and delivered comprehensive data science courses covering Python, R, statistical modeling, machine learning, and data visualization.
- Mentored over 100 students, guiding them through project-based learning to solve real-world data problems.
- Developed and implemented a curriculum that emphasized practical applications of data science tools like R, Python, SAS, Tableau, Power BI.
- Facilitated workshops on advanced machine learning algorithms and model deployment strategies.
- Provided personalized feedback to students, helping them refine their analytical and programming skills.

PUBLICATIONS

Manuscripts in Preparation

Abdulsalam, H. *Enhancing Knee Osteoarthritis Classification Accuracy: Leveraging Transfer Learning and Machine Learning Models for Advanced CAD Systems. Advances in Artificial Intelligence and Machine Learning.* (In Preparation)

Conference Papers

Abdulsalam, H. Transmutation of Weibull Pareto Distribution. (Paper submitted at the 1st International Conference of the Nigerian Statistical Society, 2017).

Abdulsalam, H. Exponentiated Generalized New Weighted Exponential Distribution. (Paper submitted at the 1st International Conference of the Professional Statisticians Society of Nigeria, 2017).

PRESENTATIONS AND INVITED LECTURES

Invited Lectures/Talks

Abdulsalam, H. *Machine Learning with Tidymodels.* (Presentation for the Abuja R-User Group, Abuja, Nigeria, October 2021).

- Delivered a brief introduction to machine learning models and the Tidymodels package.

Abdulsalam, H. Introduction to Machine Learning. (Presentation for the University of Ibadan R-User Group, Ibadan, Nigeria, January 2020).

- Presented an introduction to machine learning algorithms and their applications in human resources.

ARTICLES WRITTEN

Articles

Abdulsalam, H. Investigating the Dynamics between Price-to-Rent Ratio and Market Fundamentals: A Vector Error Correction Model (VECM) Analysis in R. Published on https://www.iamhamid.com/ (July 21, 2023).

Abdulsalam, H. Machine Learning-Driven Insights into Predicting Multiple Sclerosis: Exploring Key Determinants of CDMS Classification. Published on https://www.iamhamid.com/ (December 27, 2024).

Abdulsalam, H. Object Detection and Blurring Using YOLOv5. Published on https://youtu.be/FWJSMiu4Dig (July 16, 2023).

Abdulsalam, H. Unraveling Kickstarter Success: A Machine Learning Approach Using Random Forest and Logistic Regression. Published on https://www.iamhamid.com/ (July 21, 2023).

Abdulsalam, H. Movie Licensing with Predictive Analytics. Published on https://www.iamhamid.com/ (December 10, 2024).

PROFESSIONAL DEVELOPMENT TRAINING

Webinars

Elsinghorst, S. Deep Learning with Keras and TensorFlow. (Webinar for useR!, 2020).

Gerke, T. Causal Inference in R. (Webinar, 2024).

Kadauke, S., Rudolf, J., & Mathias, P. R for Clinical Data. (Webinar, 2022).

Cetinkaya-Rundel, M. Quarto for Reproducible Medical Manuscripts. (Webinar, 2024).

PROFESSIONAL AFFILIATIONS

Member, Nigerian Statistical Association (NSA)	2013-Present
Member, Professional Statistician Society of Nigeria (PSSN)	2018-Present

COMMUNITY SERVICE

Secretary, Liberty Estate Community Development Association 2021-2024
Responsible for managing correspondence, organizing meetings, recording minutes, and maintaining official documents to support the association's initiatives and community development activities

National Blood Service Agency, Nigeria 2019-Present
Blood donor

LANGUAGES

English: Native Language
French: Beginner Level

TECHNICAL SKILLS

Analytics: R, Python, SAS, Excel, SPSS, STATA
Visualization: Tableau, PowerBI
Cloud: AWS, Google Cloud, Microsoft Azure
Databases: MongoDB, PostgreSQL, MySQL
Dev Tools: Visual Studio Code, Git, Gitlab, Rstudio, Jupyter Notebook

REFERENCES

Dr Aminu Mohammed,
Department of Statistics
Ahmadu Bello University
Zaria, Nigeria
+234-8069329031
mohammedas@abu.edu.ng

Saheed Lawal,
Factual Analytics
Lagos, Nigeria
saheed@factual.ng
+2348166889473

Joseph Kayode,
Factual Analytics
Lagos, Nigeria
joseph@factual.ng
+2348184004444