GERARD SHU FUHNWI

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## Multifaceted Computer Science enthusiast with PhD research focus in Anomaly Detection.

EDUCATION"""

MONTANA STATE UNIVERSITY

PhD. IN COMPUTER

SCIENCE 2019–2022 GPA: 3.57/4.0 Bozman, MT

**AUSTIN PEAY STATE** 

UNIVERSITY

MS IN COMPUTER SCIENCE AND QUANTITATIVE METHODS

Graduated: May 2019

Clarksville, TN GPA: 4.0/4.0

UNIVERSITY OF BAMENDA

BSC COMPUTER SCIENCE Graduated: July 2012 Bambili, Cameroon GPA: 3.36/4.0

SKILLS

Data Analytics and Machine Learning

Supervised and unsupervised learning, time series analysis data, deep learning, NLP, SQL, Apache Spark, SAS, PyTorch, Kera's, Hadoop, TensorFlow 1.x and 2.x, MXNET.

**PROGRAMMING** 

Python, R, Scala.

**OPERATING SYSTEM:** 

Windows, Linux, Mac

**Soft SKILLS** 

Interpersonal, Team Player, Customer Services, Problem Solving, Multitasking, Strong verbal and Written Communication

**TOOLS** 

AWS, Microsoft SQL Server, Netbeans, IntelliJ IDEA.

**EXPERIENCE** 

SUMMER INTERNSHIP APPLIED AI & ML JPM CHASE & Co.

JUNE 7<sup>th</sup> – SEPT. 3<sup>rd</sup>, 2021.

Currently developing a random forest model for the prediction proactive credit line increment probability to default of customers.

Hyperparameter optimization using grid search, Bayesian method (random search, annealing and TPE)

GRADUATE ASSISTANT/GRADER MONTANA STATE UNIVERSITY

AUGUST 2019- Present BOZEMAN, MT

Grade HomeWorks for Algorithms, Data mining and Data Structures with Java and Operating Systems

Hold Lab Sessions for Java, Python

Taught CSCI 246

GRADUATE TEACHING ASSISTANT/GRADER AUSTIN PEAY STATE UNIVERSITY

AUGUST 2017- MAY 2019 | CLARKSVILLE, TN

Evaluate and grade examinations, assignments, or papers and record grades.

Meet with supervisor to discuss student's grades or to complete required grade related paperwork.

ASSISTANT HEAD OF IT/Data Analyst | NSANIMUNWI COOPERATIVE CREDIT UNION

OCT 2012- JUNE 2017 BAFUT, CAMEROON

Oversaw the administration and maintenance for the IT infrastructure including more than 20 servers, storage area networks, and enterprise storage with emphasis on availability, reliability, scalability, security and data confidentiality.

Troubleshot various network and hardware issues affect solutions and collaborated with staff and outside vendors to resolve complex network issues.

Deployed medium scale class wireless network, including access points, servers, routers, switches and other hardware.

Data cleaning, prediction models with SQLite, R and python.

**PROJECTS** 

Machine Learning models and exploratory data analysis using R, Pyspark and Python.

Predicting Ford car prices using SVM and linear regression.

Linear regression and Support vector machine (SVM) to predict Iowa house prices using the Iowa data set from Kaggle.

Linear regression to predict count of bike sharing using Pyspark.

Logistic regression to predict if a patient is diagnosed with malignant or benign on the breast cancer data set from Kaggle using Pyspark and Scala.

Build from scratch KNN, Edited KNN, Condensed KNN, MLP, DE, RBF, K-Means, DE, PSO, GA, Naïve Bayes for classification and regression prediction using the Abalone, Machine, ForestFires, Segmentation, Iris, Breast Cancer datasets from UCI Machine Learning Repository.

**Master of Science Capstone** 

Financial Time Series.

Predicting the volatility of the adjusted daily close returns of S&P 500 stock index using traditional GARCH models, LSTM and artificial neural network.

**Research Focus:** Anomaly Detection

Conducted Experiments on Isolation Forest, OneClass SVM, Auto Encoders with kdd99 data sets, breast cancer data sets and pima data sets to track anomalies.

Anomaly Detection using representative based clustering (Kmeans--) and Density based clustering (DBSCAN and DBSCAN++).

Paper: We just submitted a paper on Optimal Evolutionary Grain Mixing at IEEE conference

CERTIFICATES

Deep Learning on NLP and Computer Version with tensor 1.x and 2.x and PyTorch at ineuron.

AWS Machine Learning: Udemy, JAN. 2019

SQL For Data Science: Coursera UCDAVIS, AUG. 2018

Machine Learning: Coursera Stanford University, JULY 2018.

Information Technology Technician with Specialty in Computer Maintenance, SEPT. 2008