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– 2023
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 7th – SEPT. 3rd, 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