DANIEL KORLEY

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danielkorley

Research Interests

Artificial Intelligence (AI)
Machine Learning (ML) and Data Mining
Data Science

Skills

- **Technical Skills**
  - Programming languages: Python, R, Matlab, SQL
- **Personal Skills**
  - Written and verbal communication skills
  - Strong ability to contribute effectively as part of a team.
  - Experienced in collaborating with research teams.

Certificate

IBM Data Science — May 2024
Data Science Bootcamp — June 2024

Education

MS **Texas Tech University,** Applied Mathematics (pending) — August, 2023 - Present
Coursework: Numerical Analysis, Differential Equations, Control Optimization, Applied Analysis, Machine Learning, Control Theory, Biomathematics

BS **University of Cape Coast,** Mathematics — July, 2016 - July, 2020
Coursework: Calculus, Probability & Statistics, Algebra, Geometry, Differential Equations

Professional Experince

Texas Tech University, Graduate Part-Time Instructor — Lubbock, TX

- Fall 2024, **Instructor** - Introductory Mathematical Analysis

Ga West Municipal Assembly, Accountant — Accra, Ghana

- Prepared payment vouchers — Sept 2020 - Aug 2021
- Balanced cash book entries
- Payment of withholding tax

Adisdel College, Internship — Cape Coast, Ghana

- Developed and issued educational contents Aug 2019 - Dec 2019
- Delivered personalized instruction to each student
- Evaluated and documented students' progress

Volunteer Work

Emmy Noether High School Day May 2024

Professional Society Memberships

- Society for Industrial and Applied Mathematics (SIAM) Sept 2023 - Present
- The National Society of Leadership and Success (NSLS) May 2024 - Present
- Ghana Student Association, TTU (GSA) May 2024 - Present

Report

- Daniel Korley, *"Ministry of Happiness: Measuring the Age Dependent Polarization of Political Preferences in a Russian Society Returning to Authoritarianism"*, Master's Thesis, Texas Tech University (Texas, USA). (Pending)
- Daniel Korley, et al, *"Using Technology to Enhance and Motivate Students' Learning in Cape Coast Metropolis"*, Undergraduate Project, Spring 2020, University of Cape Coast (Cape Coast, Ghana).

Projects

Using Python, I developed an SVM classifier and tested it on the UCI Breast Cancer dataset, achieving over 90% accuracy.

Using Python with dash and plotly, I created interactive data visualizations that analyzes;

- Stock Market trends in real time
- Electricity prices by US States
- Success of Space X Launch Sites
- World Happiness Report
- Avocado prices in US States
- Life Expectancy by Countries

Using Python with tkinter, I designed a functional calculator application

Using Python, Requests, and BeautifulSoup, I implemented a web scraping technique to extract data. The extracted data was processed and stored in an Excel file format,

GitHub: https://github.com/dkorley