


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) Coursework: Numerical Analysis, Differential Equations, Control Optimization, Applied Analysis, Machine Learning, Control Theory, Biomathematics	August, 2023 - Present
BS	University of Cape Coast , Mathematics Coursework: Calculus, Probability & Statistics, Algebra, Geometry, Differential Equations	July, 2016 - July, 2020

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
- Delivered personalized instruction to each student
- Evaluated and documented students' progress

Aug 2019 - Dec 2019

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 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>