OLATUNBOSUN AYETAN

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As a dedicated Data Scientist, I am passionate about extracting valuable insights and predictive patterns from complex datasets to drive data-informed decisions. With a foundation in environmental sciences and over 5 years of experience, I possess a unique blend of domain expertise and data analytics skills. I have a proven track record of leveraging statistical analysis, machine learning, and data visualization techniques to tackle real-world problems in various industries. My ability to communicate data-driven solutions effectively makes me an asset to any organization seeking to harness the power of data.

EDUCATION

Diploma in Data Science **July 2023 – October 2023**
Lighthouse Labs

PhD Candidate in Environmental Sciences **September 2020 - Present**
University of Guelph

Master of Soil and Water Systems **August 2018 - September 2019**
University of British Columbia- Vancouver, BC

Bachelor of Agricultural Technology (First Class), Crop Soil and Pest Management **August 2012 - December 2017**
Federal University of Technology Akure, Ondo State, Nigeria.

RELEVANT WORK EXPERIENCE

Climate Change Research Associate
OCES Wood Buffalo Science Team, Parks Canada.
September 2022 - Present

- Conduct data-driven research to assess the impacts of climate change on Wood Buffalo National Park's Outstanding Universal Values.
- Develop data-driven communication products, including climate projection maps and reports, to convey climate change findings to diverse stakeholders.
- Utilize advanced statistical techniques and data modeling to conduct climate modeling for Canadian National Parks, employing tools like ClimateNA and ArcGIS Pro.
- Perform data-intensive climate change vulnerability assessments and adaptation planning for various plant and animal species within Wood Buffalo National Park.
- Collaborate closely with the Wood Buffalo Science Team on data collection, analysis, and general research activities, supporting the Parks Canada Agency's sustainability efforts.

Teaching Assistant
ENVS 1060 (DE01) (Discovering Planet Earth) (University of Guelph) **Winter 2023**
ENVS 2060/AGR 2320 (Soil Science/ Soil in Agroecosystems) (University of Guelph)
Fall 2021
Fall 2022

- Mentored students on data gathering, interpretation, and evaluation of environmental and agricultural datasets.
- Developed educational materials for laboratory tutorial sessions and facilitated the use of laboratory technologies to learn soil scientific theories and principles.
- Reinforced students understanding of soil science concepts discussed in the lecture through observations, selected exercises and assigned readings.

- Maintained regular contact with students by providing answers to enquiries related to course contents through emails, zoom, and Teams meetings.
- Marked and graded laboratory assignments and final exams, and received positive feedback from students, with more than 80% of them willing to take more advanced soil science courses during their degree.

Graduate Research Assistant
Soil Imaging Lab, School of Environmental Sciences (University of Guelph) **September 2020 - Present**

- Designed and executed data-driven research projects focused on assessing and quantifying the structural stability of agricultural soil in Ontario.
- Planned and conducted field and laboratory experiments, collecting extensive soil data for advanced analysis.
- Employed advanced statistical tools, including SAS and R, to analyze soil data, test research hypotheses, and extract valuable insights.
- Utilized cutting-edge X-ray computed tomography to scan and process intact soil core images for in-depth analysis.
- Authored and published research papers, reports, and books in prestigious journals, contributing to the field of data-driven soil science.
- Presented research findings at conferences and meetings, fostering collaboration with researchers worldwide to address soil structural degradation challenges.

Graduate Research Assistant
Land and water systems, Faculty of land and Food Systems (University of British Columbia)
August 2018 - September 2019

- Collaborated with farmers and stakeholders in the Whatcom Conservative Districts to identify and address soil and water-related challenges in agriculture.
- Conducted field assessments to determine the impact of land-use and land cover on water recharge potential.
- Applied geospatial and data analysis techniques to identify areas with high groundwater recharge potential to prevent waterlogging and downstream flooding.
- Developed and presented data-driven best management practices, contributing to policies aimed at improving soil quality in the North Lynden Watershed Improvement District.
- Created groundwater recharge maps integrated into local government spatial planning efforts in Whatcom County, Washington State, USA.
- Submitted comprehensive technical reports and published data-driven white papers, leveraging data to address agricultural and environmental challenges.

AWARD

- OMAFRA Highly Qualified Personnel Scholar **2021**
- Mastercard Foundation Graduate Scholar **2018**

CERTIFICATION / TRAINING

- MobilizeU (Knowledge Mobilization and Transfer), Research Impact Canada. **2022**
- Instructional Skills Workshop, University of British Columbia **2019**

COMMUNITY SERVICE

- Members Representative, Graduate Student Union University of Guelph **May 2022 - Present**
- Committee Member, OAC Equity Diversity and Inclusion Working Group **October 2020 - Present**
- Moderator at the Genome Canada Panel Discussion: Application of Genomics in Society. **November 2021**