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Ladi Ositelu

Engineering PhD candidate with strong statistical/machine learning expertise and client facing consulting experience looking to help solve complex business problems

Education

May 2017 **Ph.D., Energy and Mineral Engineering**, *The Pennsylvania State University*, University Park, PA.
May 2015 **M.S., Energy and Mineral Engineering**, *The Pennsylvania State University*, University Park, PA.
December 2007 **B.S., Electrical Engineering**, *The Pennsylvania State University*, University Park, PA.

Selected Coursework

Machine Learning (Random Forests, Support Vector Machines, Nearest Neighbors, Logistic Regression)
Econometrics (Cross-Sectional, Time Series and Panel Data, Experimental Design, Hypothesis Testing)

Programming Toolbox

Python (pandas, numpy, scikit-learn, beautifulsoup), PostgreSQL, Stata, Matlab, Git, AWS, Apache Spark

Research/Machine Learning Experience

Present **Volunteer Analyst**, Data for Democracy.
- Scraped crime data from major cities across USA and store in PostgreSQL database using Python
- Conducted exploratory data analysis and created dashboards to display key crime metrics in cities across USA using plotly

2014–Present **Research Analyst**, Energy and Mineral Engineering Department, University Park, PA.

Apply statistical methods to uncover insights from large scale power outage and stock market data.
- Scraped publicly available data on electric utilities and large-scale power outages using beautifulsoup and pandas
- Pre-processed thousands of power outage reports using regular expressions and fuzzywuzzy
- Imputed missing values with the median of their 5-nearest neighbors
- Analyzed trends in historical power outage data to show increasing frequency of reported power outages over the last decade
- Used generalized least squares regression to evaluate the impact of power outages on the financial market value of electric power companies using scikit-learn and statsmodel (Python)
- Implemented a fixed-effect regression model that showed a 10% increase in cash reserves was associated with a 0.5% increase in utility investment after the financial crisis using statsmodel (Python)

2013 **Teaching Assistant**, Energy Corporate Finance, Penn State University.
- Assisted a class of 80 students with learning basic corporate finance principles and how they can be applied to the energy sector
- Held exam review sessions and office hours to enhance student understanding of course material

2009–2010 **Research Assistant**, Brownson Research Group, State College, PA.
- Interfaced with rural Nigerians to gather electricity usage data used for developing models for small solar powered systems
- Applied a linear optimization model to determine the optimal mix of renewable energy sources and fossil fuels for electricity production in Pennsylvania using Matlab

Consulting Experience

2011–2012 **Clean Technology Consultant**, Small Business Development Center, State College, PA.
- Advised clients and collaboratively developed plans to install renewable energy systems
- Conducted detailed market research analysis and developed business plans for clients interested in renewable energy businesses
- Provided technical analysis that helped clients secure renewable energy grants worth $100s of thousands

Publication

The response of Investors in Publicly-Traded Utilities to Blackouts, *2015 48th Hawaii International Conference on System Sciences*, 2557-2565.