

John Akudike

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EDUCATION

Texas Tech University, Rawls College of Business Lubbock, TX
Master of Science in Data Science (GPA: 3.92) December 2023

Texas Tech University Lubbock, TX
Master of Science in Geophysics (GPA: 3.88) December 2023

WORK EXPERIENCE & PROJECTS

Texas Tech University Lubbock, TX
Modeling Research/ Teaching Assistant August 2021 – Present

- Process and analyze extensive seismological data, leading to the construction of intricate velocity models with a 90% accuracy in subsurface imaging.
- Engineer framework for subsurface imaging, resulting in a 40% reduction in data processing time and a 25% increase in data visualization efficiency.
- Employ wavefield iterative deconvolution, improving image and signal processing speed by 60%.

Pioneer Natural Resources Irving, TX
Data Analyst Intern May 2023 – August 2023

- Engineered a robust framework enabling root cause analysis and trend identification for 160 Gas-Lift wells' Hole-In-Tubing incidents, resulting in a 30% reduction in unplanned downtime.
- Leveraged machine learning techniques to accurately predict well failure dates due to Hole-In-Tubing, achieving a 95% prediction accuracy rate, 91% precision, and 92% recall while overcoming overfitting.
- Strategically implemented anomaly-based alarming for wells in production, resulting in a 20% decrease in response time to critical events.

ExxonMobil

Operations Technical Geoscience Intern July 2018 – January 2019

- Conducted volumetric assessments for the Asasa Field, accurately quantifying 45 million barrels of oil equivalent and contributing to resource planning.
- Led comprehensive tutorials on data cross plotting, enhancing interns' productivity by 60%.
- Created correlations, executed time-to-depth conversions, and conducted analysis, resulting in a 50% improvement in the accuracy of geological models.

PROJECTS

Application Server Migration September 2022 – Present

- Orchestrated the seamless migration of application servers and database infrastructure to multi-cloud environments, reducing migration time by 40% and achieving 99.9% uptime.
- Designed a cutting-edge multi-cloud deployment architecture across AWS, GCP, Azure, and OCI, resulting in a 25% reduction in infrastructure costs.
- Executed ETL operations on extensive datasets, reducing data redundancy by 60% and enhancing data accessibility by 70%.

TECHNICAL SKILLS

Research Software/ Programming Languages: Python • SQL • NoSQL • R • Azure • AWS • GCP • Kubernetes

Data Science/ Analytics: Data Wrangling (BeautifulSoup) • Data Processing (NumPy • Pandas) • Data Visualization (Matplotlib • Seaborn • Tableau • PowerBI • Spotfire) • Alteryx

Machine Learning: Deep Learning (LSTM NNs • TensorFlow • Keras • Image Processing with CNNs) • Unsupervised Learning (K-Means Clustering) • Anomaly Detection (Isolation Forests • Autoencoders)

CERTIFICATIONS

Microsoft Certified: Machine Learning/ AI Challenge Obtained July 2023

Microsoft Certified: Azure Fundamentals Obtained January 2023

AWS Certified Cloud Practitioner Obtained October 2022

Google Certified IT Automation with Python Professional Obtained June 2022