UCHE NNACHI

U.S. Permanent Resident (authorized to work without sponsorship)

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Summary

Data scientist specializing in machine learning and predictive analytics to drive business strategy. Proven expertise building automated data pipelines, statistical models, and decision-support systems using Python and SQL, with demonstrated success translating complex data into actionable insights for cross-functional stakeholders.

Education

Rochester Institute of Technology 2022
M.Sc. in Sustainability, GPA: 3.85/4

University of Galway 2019
M.Sc. in Climate Change, Agriculture and Food Security, Grade: First Class

Ebonyi State University 2014
B.Sc. in Agronomy, Grade: Second Class

Certifications and Skills

- **Certification**: Project Management Professional (PMP) – In progress, expected April 2026
- **Programming Languages**: Python, R, SQL, Java, JavaScript, Scala
- **Databases & Data Warehouse**: PostgreSQL, MySQL, MongoDB; Snowflake, Redshift
- **ML/AI**: PyTorch, TensorFlow, JAX, Hugging Face; LangChain/LangGraph
- **MLOps & Data:** MLflow, Kubeflow, Vertex AI, AWS SageMaker; Spark, Airflow, Kafka; Docker, Kubernetes; Git/GitHub
- **Data Analytics & Visualization:** Salesforce, SAP, Looker, Tableau, NetSuite, MS Office Suite

Work Experience

Senior Analyst 11/2022 - Present
UGE, New York (Remote)

- Led cross-functional analytics initiatives supporting strategic land campaigns, lease negotiations, and market expansion strategies.
- Built scalable geospatial data pipelines using Python to ingest, standardize, and analyze 1,000+ datasets (transmission, land use, solar resource), accelerating site identification and feasibility analysis for distributed solar and BESS projects.
- Developed predictive models using Random Forest and XGBoost to score site viability based on 50+ technical and economic features, improving project qualification accuracy by 30% and reducing development timelines.
- Applied machine learning clustering algorithms (K-means, DBSCAN) to segment development pipelines by profitability and risk, enabling data-driven portfolio optimization and capital allocation strategies.
- Conducted time-series analysis and regression modeling on ISO market data (NYISO, PJM) to forecast electricity prices, congestion patterns, and capacity market revenues for project cash flow modeling.
- Designed interactive Tableau/Power BI dashboards integrating CRM, interconnection queue, and market data to provide real-time portfolio analytics and performance tracking across 200+ projects.
- Implemented NLP and text mining techniques to automate extraction of regulatory requirements from zoning ordinances and permitting documents, reducing compliance review time by 40%.
- Mentored analysts on Python programming, statistical modeling, and data visualization best practices, improving team analytical capabilities.

Business Development Summer Associate 06/2022 - 10/2022

Brightmark, San Francisco (Remote)

- Conducted comprehensive market and regulatory analysis using Python and Excel to identify government incentives, state-level feedstock potential, and environmental compliance requirements across 15+ states, building a decision-support database for waste-to-energy project targeting.
- Analyzed feedstock supply chains using geospatial data and logistics modeling to optimize collection routes, estimate transportation costs, and assess facility-level feedstock availability for biogas production.
- Developed data-driven feasibility models for digestate-to-fertilizer solutions, analyzing nutrient composition, leaching rates, and environmental impact metrics to inform RNG project compliance and reduce regulatory risk.
- Streamlined RFI/RFP response workflows by creating standardized data visualization templates and proposal analytics frameworks, reducing response time by 30% and improving win rates.

Quality Lead - Coinbase 07/2020 - 08/2021

Telus International, Ireland

- Designed and maintained end-to-end performance analytics infrastructure tracking quality, compliance, and efficiency metrics across multiple customer support channels.
- Built automated auditing dashboards in Excel and Tableau to provide real-time visibility into agent accuracy, compliance, and response times across 50+ support associates.
- Developed predictive models to forecast support volume and staffing requirements using crypto market volatility, transaction patterns, and historical ticket data, improving resource allocation accuracy by 20%.
- Implemented A/B testing methodologies to evaluate process improvements and policy changes, measuring impact on KPIs such as first-contact resolution and customer retention.

Project Manager 09/2015 - 09/2018

World Bank – Fadama Project, Nigeria

- Designed and implemented a data collection framework for an agricultural development project reaching 5,000+ rural farmers, building SQL database infrastructure to track beneficiary demographics, income levels, crop yields, and program participation.
- Engineered a beneficiary management system with data quality controls, validation rules, and automated anomaly detection to ensure database accuracy and support evidence-based decision-making.
- Built predictive models to identify high-risk beneficiary segments and forecast program outcomes, enabling proactive interventions and optimized resource allocation.
- Developed automated reporting pipelines using Excel and Python to generate monthly, quarterly, and annual performance dashboards for World Bank stakeholders, reducing report preparation time by 50%.
- Applied data visualization techniques to communicate complex program metrics to diverse, non-technical stakeholders including government officials, donors, and community leaders.

Assistant Program Manager 04/2014 - 09/2015

DOVENET Nigeria (NGO), Nigeria

- Managed data collection and analysis for a USAID-funded maternal health program serving 400+ women, implementing program-level tracking to monitor patient identification, treatment outcomes, and community reach.
- Implemented a beneficiary tracking database with data validation protocols and performance indicators to monitor program delivery, volunteer activities, and resource allocation efficiency.
- Developed an impact measurement framework analyzing health outcomes, treatment success rates, and community engagement metrics to demonstrate program effectiveness and support donor accountability.
- Built automated donor reporting dashboards consolidating program, financial, and outcome data, reducing report preparation time by 40% while improving data accuracy.