

PHILIP PEPRAH OWUSU

Calgary, AB | 825-561-1196 | philippeprahowusu@gmail.com | [linkedin.com/in/philippeprahowusu](https://www.linkedin.com/in/philippeprahowusu) | [GitHub](#)

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, JavaScript, HTML, CSS, jQuery, Java
- **Libraries & Frameworks:** Pandas, NumPy, Matplotlib, Plotly, Seaborn, TensorFlow, Pytorch, Keras, Hadoop, React Native, Streamlit, Flask
- **Applications:** Databricks, Tableau, PowerBI, SPSS, NVIVO, Jupyter, Docker
- **Cloud Computing Platforms** – AWS (Certified Solutions Architect Associate), GCP, Azure
- **Data Analysis and Machine Learning:** Data Analysis, Data Visualization, Large Language Models (LLM), Machine Learning, Sentiment Analysis, Statistical Modelling, Regression

RELEVANT EXPERIENCE

Data Scientist (Internship)

September 2023 - December 2023

Integrated Support for Living, Oregon, USA

- Developed a predictive model to anticipate housing changes among residents.
- Conducted training sessions for administrative staff on maintaining data collection quality assurance.
- Created a Tableau dashboard for streamlined data visualization and analysis.

Data Scientist

April 2019 - February 2023

Innolead International LLC

- Created a Python-based machine learning pipeline on AWS to deploy a Natural Language classification model for customer churn responses, assigning them into (one of) five categories.
- Led research projects and utilized SPSS for analysis, achieving a notable 13% enhancement in research quality and efficiency.
- Saved 8 hours per week by creating efficient data pipelines where API requests from 3 different data sources were automated using AWS Lambda Functions with a rule-based system to clean, merge and place data in the correct S3 and Redshift locations.
- Developed regression models using Non-Parametric Statistical methods and Linear Regression to recommend optimal locations for 5 new mini CBG Bank kiosks in Ghana, automating the process and saving the team 45 days of delay.
- Developed data visualization dashboards using Tableau and D3.js, enabling real-time insights for executives and managers, leading to data-driven decision-making.
- Analyzed customer data and built a predictive model with an impressive 85% accuracy in churn prediction.

IT Manager & Research Assistant

December 2014 - December 2018

Nobel International Business School, Ghana

- Designed and delivered a training program for doctoral students, covering data analysis skills and resulting in a 43% increase in thesis completion.
- Developed and maintained information systems and databases, improving data accuracy by 30% and retrieval efficiency by 20%.
- Implemented cloud-based Business Intelligence platforms for interactive dashboards, increasing efficiency by 15% and promoting data-driven decisions.
- Mentored IT professionals, boosting team productivity by 20% and ensuring successful project completion.
- Collaborated with teams to reduce repeat IT incidents by 73% through improved policies and procedures.
- Implemented A/B testing strategies resulting in a 20% increase in website conversion rates and a 15% improvement in user engagement metrics.

PHILIP PEPRAH OWUSU

EDUCATION & CERTIFICATIONS

- Master of Data Science and Analytics/ University of Calgary December 2023
- AWS Certified Solutions Architect – Associate May 2023
- PG Cert. in Business Administration/ Swiss Business School, Switzerland October 2016
- BSc. Information Technology/ Valley View University, Ghana July 2014

VOLUNTEERING

- **Research Assistant - United Nations Project**
 - Contributed to research initiatives, collaborating on various aspects of United Nations projects.
- **Research Assistant and Infographic Animator - International Trade Union Congress Africa**
 - Worked on diverse projects, combining research responsibilities with infographic animation tasks.
- **Infographic Creator Women in Informal Employment: Globalizing and Organizing (WIEGO) - UK**
 - Developed engaging infographics to support the organization's communication and outreach efforts.
- **DataCon Website Manager and Technical Team Member - YYC Data Community**
 - Managing the DataCon website, and actively contributing as part of the technical team.

PROJECTS

- Engineered a Python LSTM Deep Learning model for Sign Language Detection through Action Recognition.
- Applied machine learning to predict wind turbine power generation, optimizing renewable energy solutions.
- Conducted statistical analysis for insurance charges using Multiple Regression Modeling.
- Developed a machine learning-based web app for Amazon book genre classification.
- Implemented DNA classification for E.Coli on AWS, showcasing cloud-deployed machine learning solutions.
- Engineered a gender prediction model using voice frequency.
- Developed the Adansi Travel Mobile App using ReactJS and Firebase for streamlined travel destination management.