

# PHILIP PEPRAH OWUSU

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## Programming Skills & Applications

Python | R | C/C++ | Java | JavaScript | MATLAB | SPSS | SQL | MSSQL | Pytorch | PHP | Git | ReactJS, HTML5, CSS3 | Hadoop | Spark | Natural Language Processing | Tensorflow | Keras | Pandas | NumPy | Matplotlib | Scikit-learn | Machine Learning | Adobe (Photoshop, Illustrator, Aftereffects) | MongoDB | AWS | Microsoft Azure | Google Cloud | Google Big Query | Microsoft PowerBI | Tableau | Qlikview

## Education & Certifications

- Master of Data Science and Analytics/ University of Calgary **Graduation date – November 2023**  
*Relevant Coursework: Statistical Data Analysis & Modelling, Machine Learning, Big Data Applications and Data Visualization*  
**GPA: 3.5/4.00**
- PG Certificate in Business Administration/ SBS Swiss Business School, Switzerland **February 2016 - October 2016**
- BSc. Information Technology/ Valley View University, Ghana **August 2010 - July 2014**
- Amazon Web Services** - AWS Certified Solutions Architect – Associate **Issued - May 2023**

## Experience

**Software Data Scientist (Remote)** **April 2019 – February 2023**  
Innolead International, Ghana

- Built a machine learning pipeline using python to deploy an NLP classification model on AWS, categorizing customer churn responses into 5 categories.
- Constructed an **SVM Classifier** with **stochastic gradient descent optimization** method on labeled dataset, implemented 10-fold cross validation to find the best set of hyperparameters for the model and increased the accuracy by 25.8%.
- Led research projects and performed analysis with SPSS, resulting in a 13% improvement in research quality and efficiency.
- Used Tableau and D3.js to develop data visualization dashboards that provided real-time insight to executives and managers, fostering data-driven decision-making.
- Developed BI dashboards to track KPIs and retrieve data, increasing accuracy and saving 10 hours of manual analysis per week by 25%.
- Analyzed customer data and developed a predictive model with 85% accuracy in churn prediction.

**IT Manager & Research Fellow** **December 2014 – December 2018**  
Nobel International Business School, Ghana

- Designed and delivered a comprehensive training program for over 100 doctoral students, teaching data preparation, data analysis, presentation of findings, data visualization techniques, and the use of statistics tools, resulting in a 43% increase in the completion of doctoral theses.
- Developed and maintained information systems and databases to ensure seamless data access and retrieval using SQL, resulting in a 30% increase in data accuracy and 20% improvement in data retrieval efficiency.
- Implemented cloud-based Business Intelligence platforms like Microsoft Power BI and Tableau to develop interactive dashboards and reports for senior management, resulting in a 15% increase in efficiency and data-driven decision-making processes.
- Mentoring a team of IT professionals, providing guidance on best practices and methodologies in software development life cycle, cloud data, and database management, leading to a 20% increase in team productivity and successful project completion.
- Worked collaboratively with cross-functional teams to identify areas for improvement and develop policies and procedures to address IT incidents, leading to a 73% decrease in repeat IT incidents.

**Software Engineering Intern** **May 2013 – August 2013**  
Mercton Resources, Ghana

- Assisted in the development of a payment platform using APIs and frameworks integration, resulting in a 42% increase in global revenue and increased customer satisfaction.
- Implemented SQL to manage databases, resulting in a 30% increase in data retrieval efficiency and ensuring data integrity.
- Conducted testing and debugging of software components, ensuring quality and reliability in the software development lifecycle.
- Assisted in the development of a prototype for a new software product, showcasing proficiency in programming languages and Agile development methodologies.

## Projects

- Assessing the Impact of COVID-19 Restrictions on Health and Economic Recovery: A Province-level Analysis
- [Wind power generation](#): Used machine learning modeling to predict the power generation of wind turbines.
- Deep CNN Image Classifier with ANY Images (Tensorflow and Keras)
- Sign Language Detection using Action Recognition with Python an LSTM Deep Learning Model
- [Adansi Travel Mobile App](#): Travel destination mobile app for Adansi travels. Developed using **ReactJS** and **Firebase**.