Israel Aloagbaye Igietsemhe

Email *aloagbaye.i@gmail.com*

Phone - *4168312637* **LinkedIn** - *https://www.linkedin.com/in/aloagbaye/*

Website - *aloagbaye.github.io* **Github** - *https://github.com/Aloagbaye*

Technical Skills

- **Advanced:** Python (pandas, numpy, scikit-learn, Tensorflow, PyTorch, Keras, SpaCy, NLTK, seaborn, matplotlib), Model Deployment (flask, heroku), R (caret, fitdistrplus, ggplot), SQL, Web development (HTML, CSS, Wordpress, PHP, Bootstrap)
- **Experience With:** Cloud Services: Microsoft Azure, AWS, GCP, IBM Watson studio

Experience

Data Science Fellow at SharpestMinds 04/2020 - Present

- Built a full-stack machine learning web application that classifies Amazon product reviews using natural language processing. The product helps customers clarify product selection based on keywords discussed in product reviews.
- Created an original dataset by building a data pipeline that scrapes Amazon product reviews using beautiful soup and performs data cleaning to prepare the dataset for topic modeling.
- Applied topic modeling using a latent dirichlet allocation model in scikit-learn to identify keywords for each product's review.
- Deployed model as a web-app using python flask and Heroku. The published project is available here: bit.ly/topic_modeling_lda
- Mastered data structures, algorithms and software engineering.

Graduate Research Assistant at University of Toronto 09/2014 - Present

- Collected user and business requirements and put together detailed project plans.
- Developed random forest models in helping Nestle Canada in underpayment claims classification.
- Developed a local heuristic search model for inventory allocation for Nestle Canada with potential reduction in penalty costs up to $200,000 monthly.
- Developed demand forecasting models with generative adversarial networks and Bayesian LSTMs using keras, scikit-learn, Tensorflow and PyTorch.
- Supervised a Natural Language Processing project on analyzing Twitter trends of latest beer flavours.

Machine Learning Engineer at CIBC 05/2015 - 06/2015

- Initiated an unsupervised learning system for anomaly detections in managing role-based access control using hierarchical clustering of the jaccard distances.
- Implemented python codes using selenium package for web scraping of employee profiles.

Education

Doctor of Philosophy, Industrial Engineering, University of Toronto 08/2014 - 08/2021

- Applied lattice methods in the robust valuation of financial derivatives with uncertain parameters.
- **Relevant Skills:** Probability, Statistics, Research and Optimization.

Master of Engineering, Industrial Engineering, University of Benin 11/2009- 11/2010

- **Relevant Skills:** Applied Statistics, Systems Engineering and Mathematical programming.

Bachelor of Engineering, Production Engineering, University of Benin 01/2004 - 11/2008

- **Relevant Skills:** Computational Programming, MatLab, Linear Algebra, Vector Calculus, Differential Equations.