

## ANDREW OGAH

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### SKILLS & TOOLS

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• Python programming (NumPy, Pandas, SciPy, Matplotlib, Seaborn) • Machine learning frameworks (Scikit-Learn, Dask, and some TensorFlow) • Version control with Git & GitHub • Familiarity with SQL & NoSQL • Some familiarity with Amazon Web Services (AWS) & Google Compute Platform (GCP) • Understanding of various statistical & machine learning techniques (regression, tree-based methods, support vector machine (SVM), neural networks, dimension reduction techniques, clustering).

### EDUCATION & TRAINING

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#### MIT's online learning initiative through edX

MicroMasters Program in Statistics and Data Science

Associated Coursework: Probability – The Science of Uncertainty and Data, Data Analysis for Social Scientist, Fundamentals of Statistics, Machine Learning with Python – From Linear Models to Deep Learning.

#### Springboard, USA

Data Science Career Track Fellowship

- [Capstone Project 1](#): Classification model predicting terrorist attacks perpetrated by domestic or foreign nationals in the US using the Global Terrorism Database (GTD) and Random Forest algorithm in Python's data science libraries.
- [Capstone Project 2](#): Testing multiple predictive models for fraud detection in the public health field using large datasets of over 25 million records from the Centers for Medicare and Medicaid Services (CMS) and semi-supervised learning algorithms in Python.
- Associated Skills: data visualization, descriptive, predictive & prescriptive data mining, machine learning, and big data.

#### Harvard University (Extension School), Cambridge MA

Master of Liberal Arts in Information Management Systems (Information Technology Track)

- [Capstone Collaborative Project](#): Deep learning of a highly scalable predictive algorithm to save the classification time of magnetic resonance imaging (MRI) scans by 30% year over year and enhance the efficiency and accuracy of radiologists in the healthcare field using TensorFlow and AWS Lambda.
- Relevant Coursework: Database Systems, Statistical Methods, Introduction to Quantitative Methods, IT Finance and Communications.

#### Obafemi Awolowo University, Nigeria

Bachelor of Science in Electronics, Electrical Engineering

### PROFESSIONAL & WORK EXPERIENCE

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#### [Freelance Analytics Consulting & Personal Projects](#)

07/2017 – To present

- Model selection of the SVM algorithm from various predictive cross-validated classification techniques using independent judgment to research data science solutions, the F1 score, and AUC/ROC performance metrics results for a client on Upwork.
- Predictive classification model to ascertain the likelihood of a renewal of policy premium collection with an added incentive plan to maximize the policies' net revenues in the McKinsey & Co. / Analytics Vidhya Hackathon.
- Creative feature engineering to improve prediction of patient wait times from the Massachusetts General Hospital's operational data.
- Feature selection of the best predictors for customer retention on a JSON time series dataset in the Ultimate data science challenge.
- K-Means clustering for customer segmentation with the Elbow Method to research the optimum number of clusters to aid the development of customized marketing campaigns for a client on Upwork.

#### Charter Communications (Spectrum)

Columbus, OH

04/2011 – To present

Technical Analyst.

- Provided support services to top-level clients, creating value for products, ensuring more than 90% client retention.
- Collaborate with the Regional Business Operations Center to troubleshoot and resolve large-scale technical issues using internal tools and documented procedures, maintaining 99% service availability.
- Assisting in reducing service support shrinkage by 10% by working in cross-functional teams to impact customer experience positively
- Involved in the calibration and documentation of baseline metrics for behavioral quality assurance control in speech and voice analytics to maintain frontline support efficiency at 75%, enhancing continuous improvement in workflows.