# Blessing Itoro BASSEY

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## EDUCATION

- **African Masters in Machine Intelligence (AMMI) /** Masters in Machine Intelligence
  October 2019 - April 2021,  GHANA

- **African Institute for Mathematical Sciences (AIMS) /** Masters in Mathematical Sciences
  October 2018 - July 2019,  CAMEROON

- **University of Ilorin** / B.Sc Mathematics
  September 2012 - July 2016,  NIGERIA

## PROJECTS

- **Statistical Methods for Predicting Prison Populations,** using the prison data as case study, I explored some statistical modelling techniques like regression, time series analysis as well as the stock flow model, to identify the need for future prison places, skills learned can be transferred to other tasks or datasets.

- **EDA and Topic Modelling on Tweet Data:**  An exploratory data analysis of tweets scraped online from Jan - Jun 2020. A technique called Topic Modelling was used to categorise tweets based on topics.

- **Cassava Disease Classification:** The project involved classifying pictures of cassava leaves into 1 of 4 disease categories, this was an in-house kaggle competition done as a team and my group TAB-Next came first .

- **Object Detection, Segmentation and Human Pose Estimation:** This was a computer vision project involving reproducing the Mask RCNN paper. The techniques used were instance segmentation and object detection, and the implementations  were done using Detecron2. Details of all projects above and more can be found here.

## WORK EXPERIENCE

- **54gene /** Data Analyst                                                                                                **Sept 2021  - Present**
  ★ Addressing the significant gap in the global genomics market by leveraging on data driven approach for pharmaceutical research and development that may hold the key to medical discoveries and new healthcare solutions.

- **Smart Agriculture Innovation Center (SAIC) at KNU /** ML Intern (Remote)                      **Feb 2020  - Present**
  ★ Researching and developing smart systems to improve sustainable and resilient agriculture production by applying different tools in Artificial Intelligence.

- **Fiverr.com /** Data Analyst (freelancing)                                                                      **April 2019 - Present**
  ★ Undertaking research needs such as questionnaire development, survey development and validation, data collection, qualitative and quantitative data analysis.
  ★ Using statistical as well as machine learning algorithms to analyze client data and generate useful business reports to help get actionable insights that would in turn  improve business processes and decision making.
  ★ Using appropriate tools and techniques in creating PowerPoints, reports, dashboards and models and presenting them successfully to management for better understanding.

- **Carnegie Mellon University,** USA /  ML Intern                                                              **Jun 2021  - Sep 2021**
  Understanding the role text plays in an image, and therefore developing models for the TextVQA benchmarks

- **Neuromatch Academy** / Teaching Assistance                    **July 6th - July 31st 2020**
★ Responsible for training and coordinating a group of students at Neuromatch Academy 2020, an online summer school.
★ Facilitated hands-on tutorials for students on computational neuroscience and machine learning with the method of peer programming (assigning students into break out rooms for effective brainstorming and enhancing teamwork)

- **Lagos State Bureau of Statistics /** Statistician (Intern)               **June 2015 - December 2015**
★ Data collection, qualitative and quantitative data analysis with Excel, R and SPSS package
★ Questionnaire designs. gathered numerical data and then visualized it, thereby helping companies to make sense of quantitative data and to spot trends to aid decision making.

## SKILLS

★ **Programming & Frameworks:** Python, R, PyTorch, SPSS, Excel
★ **Packages:** Scikit-Learn, NumPy, SciPy, Pandas, NLTK, BeautifulSoup, Matplotlib, Statsmodels. e.t.c
★ **Key skills:** Data Visualization • Predictive Analysis • Statistical Modeling • Training & Mentoring • Data Analytics • Data Mining • Quantitative Analysis • ML Algorithms • Deep learning • NLP.

## PUBLICATIONS

- **Participatory Research for Low-resourced Machine Translation (A Case Study in African Languages)**

- **A reinforcement learning approach for optimal placement of sensors in protected cultivation systems (link)**

## CERTIFICATIONS

- Introduction to SQL and Machine learning for Business by DataCamp

- Python for Data Science by WorldQuant University, virtual Internship at KPMG

- Machine Learning, Deep Learning and Mathematics for Machine Learning by Coursera

## REFEREES

- **YONATAN BISK**
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