Gazali Agboola

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| **Greensboro, NC 27401.** | | **+1 (779)-777-8515** |
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[GitHub](https://github.com/Gazmaths) | [Portfolio](https://gazmaths.github.io/portfolio/)

PROFILE

A Ph.D. candidate in Data Science and Analytics (GPA: 3.95/4.0) with expertise in machine learning, statistical modeling, and large-scale data analysis. Skilled in Python, R, SQL, and advanced analytics for solving complex real-world problems. Proven ability to design, evaluate, and deploy machine learning models, extract actionable insights from structured and unstructured data, and communicate findings to both technical and non-technical audiences. Passionate about applying data science to enhance decision-making and create measurable business impact.

SKILLS

* **Programming Languages:** Python, R, SQL, SAS
* **ML & Statistics**: Predictive Modeling, Supervised & Unsupervised Learning, Deep Learning, NLP, Regression, Causal Inference, A/B Testing, Ensemble Learning
* **Financial Analysis & Tools:** Financial Modeling, Budgeting & Forecasting, FP&A, KPI Analysis, Variance Analysis
* **Data Visualization Tools:** Power BI, Tableau, IBM Cognos, Google Looker Studio, Matplotlib, Seaborn, Streamlit
* **Data Tools:** Advanced Microsoft Excel (Pivot Tables, VBA, Macros), Power BI, Tableau, SAP, Google Workspace
* **Big Data and Cloud:** GCP, AWS, Docker, BigQuery, PostgreSQL, MySQL, Git, Docker, Snowflake
* **Business Applications**: Forecasting, Risk Modeling, Consumer Behavior Analytics, KPI Tracking
* **Additional Skills**: Microsoft Office Suite (Excel (Advanced), Word, PowerPoint), SAP, Google Slides, Google Docs
* **Soft Skills:** Analytical reasoning, data storytelling, technical writing, cross-functional collaboration

**EDUCATION**

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| --- | --- | --- | --- |
| **North Carolina Agricultural and Technical State University** | | | Greensboro, North Carolina, USA |
| **PhD. – Data Science and Analytics** | | **Expected Graduation: May 2026** | |
| **GPA – 3.95/4.0** | |  | |
| **University Of Ilorin** | | | Ilorin, Kwara State, Nigeria |
| **Master of Science—Mathematics** | **Dec. 2015** | | | |
| **GPA – 3.66/4.0** | | |  |
| **University Of Ilorin** | | | Ilorin, Kwara State, Nigeria |
| **Bachelor of Science—Mathematics** | | | **July 2013** |
| **GPA – 3.54/4.0** | | |  |

RELEVANT COURSES TAKEN

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| --- | --- | --- |
| Machine Learning and Data Analytics | A/B Testing and Hypothesis Testing | Linear Algebra |
| Deep Leaning Specialization | SQL & Big Data Analytics | Introduction to Probability Theory |
| Mathematical Modeling | Chat Prompts for Developers | Python for Data Science |
| Multivariate Statistics for Engineers | Big data analytics | Advanced Calculus |
| Natural Language Processing | Advanced Geospatial Analysis | Sequence to Sequence Models |

**WORK EXPERIENCE**

**North Carolina A&T State University Greensboro, North Carolina, USA**

**Data Science Research Assistant Aug. 2022 – Present**

* Designed and implemented deep learning and statistical models for geospatial risk assessment, achieving up to 99.4% F1-score
* using ensemble ML techniques
* Built an Agentic AI-powered chatbot for disaster vulnerability analysis using OpenAI API, streamlit, and large-scale geospatial datasets
* Performed causal inference and experimental analysis for geospatial risk modeling, leveraging advanced statistical techniques and ensemble machine learning models to achieve a 99.4% AUC-ROC-score in landslide susceptibility prediction.
* Collaborated with cross-functional team to develop a knowledge graph–based disaster monitoring system, enabling timely alerts and facilitating efficient evacuation during flooding events

**HP (HBCU FOWA Innovator Incubator)**

**Software Engineer July. 2024– Sept. 2024**

* Collaborated in agile product team to design and deploy Edu-Navigator chatbot using GPT-3.5 and Streamlit, presenting to HP senior executives
* Participated in product demos, refining requirements based on user feedback to improve functionality and adoption

**FrieslandCampina WAMCO Ikeja, Lagos, Nigeria**

**Credit Control Manager Aug. 2021 – Dec. 2021**

* Performed credit risk modeling, customer risk exposure analysis maintaining 15-day overdue below **10%** of total account receivables
* Automated financial and operational reporting, improving process efficiency across finance, sales, and supply chain units
* Partnered with supply chain teams and sales teams to analyze trends and generate business insights

**Commercial Data Analyst Feb. 2020 – July 2021**

* Developed data visualization solutions (Power BI, SQL) for executive reporting, increasing decision speed and revenue by **20%**
* Built regression and ARIMA models for demand forecasting, improving forecast accuracy and reducing costs
* Automated incentive and sales reporting using Python, advanced Excel, and SQL, improving decision speed

**Business Support Analyst Jan. 2017 – Jan. 2020**

* Collaborated with field sales team and business excellence team to optimize sales performance tracking systems
* Developed SOP documentation, sales data pipelines, and project status reports using SAP and Excel
* Monitored salesforce effectiveness metrics and managed the customer expansion database to support business growth

**PROJECTS AND RESEARCH**

* **Edu-Navigator Chatbot (HP FOWA):** Developed AI chatbot using GPT-3.5 for HBCU student navigation; built backend with Python and integrated UI via Streamlit
* **Credit Card Fraud Detection:** Designed unsupervised anomaly detection model using isolation forest model and statistical analysis
* **Deep learning models for computer vision**: Developed computer vision pipelines for segmentation of satellite images, applying CNN-based architectures like UNet and SwinUNet
* **Machine Learning Optimization:** Developed ensemble ML-model that achieved **99.4%** accuracy using spatial data
* **CarMax Hackathon:** Created interactive dashboards and metrics using Streamlit and SQL to evaluate vehicle appraisal patterns

**AWARD AND HONORS**

* HP Future of Work Academy (FOWA) winner **2024**
* North Carolina ArcGIS Users’ Graduate Academic Excellence Award  **2024**
* Thermo Fisher Scientific Innovation Challenge (First Position) **2024**

**CERTIFICATIONS AND TRAINING**

* Deep Learning Specialization by DeepLearning.AI [Link](file:///G:\My%20Drive\Certificate\Deep%20Learning%20Specialization.pdf) **2024**
* Transfer Learning for Images Using PyTorch: Essential [Link](file:///G:\My%20Drive\Certificate\Transfer%20Learning%20for%20images%20using%20pytorch.jpeg) **2024**
* IBM Data Analyst Professional Certificate [Link](https://coursera.org/share/63ec2241bd98c2bd9b682a00ac26c69a) **2025**
* Natural Language Processing in Python by [Link](https://drive.google.com/file/d/1EZzlAPXhzi7pSOCBNrqeXz8YMfZ-eb2Z/view?usp=sharing) **2025**
* Google Business Intelligence Professional Certificate [Link](https://coursera.org/share/c25a3a34f403326555e1d3f82be52508) **2025**
* Introduction to cybersecurity by Codepath [Link](file:///G:\My%20Drive\Certificate\Codepath%20certificate.pdf) **2024**
* Databases and SQL for Data Science with Python by IBM [Link](file:///G:\My%20Drive\Certificate\SQL%20Database.pdf)  **2024**

**LEADERSHIP and LEADERSHIP**

* President, ASPRS NCAT Chapter (2023–Present))
* Mentor Collective Ambassador (2023–Present)
* Member – International Society for Data Science and Analytics, NSBE, AGU, ASPRS, NCAUG