

# Gazali Agboola

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[GitHub](#) | [Website](#)

## PROFILE

I am a Ph.D. Candidate in Data Science & Analytics (GPA: 3.95/4.0) with strong hands-on experience in Python-based machine learning systems, agentic AI workflows, and cloud-native analytics platforms. I have proven ability to collaborate with engineering teams to modernize ML pipelines, consolidate configurations, analyze model performance, and improve operational workflows. Passionate about ML engineering, platform reliability, and scalable AI systems in regulated environments.

## SKILLS

### GenAI & LLM Engineering

- Agentic AI systems, multi-agent pipelines
- Configuration-driven ML pipelines for consistency & maintainability
- LLM integration (OpenAI, Hugging Face), RAG workflows

### Machine Learning & Analytics

- Supervised & Unsupervised Learning, Model Evaluation
- Exploratory Data Analysis (EDA), Statistics & Probability
- Model performance monitoring & error analysis
- Deep Learning: Neural Networks, LSTM, CNNs, Transformers, LLMs

### Programming & Data

Python, SQL, R  
Relational Databases: PostgreSQL, MySQL, BigQuery

### Cloud & DevOps & Platform

- AWS: EC2, SageMaker, Lambda, App Runner, CloudFront, GCP
- Docker, Git (version control), CI/CD concepts)
- Streamlit and Vercel for internal ML tools and dashboards

## EDUCATION

North Carolina A&T State University

Greensboro, North Carolina, USA

Ph.D. in Data Science & Analytics

GPA – 3.95/4.0

University Of Ilorin

Ilorin, Kwara State, Nigeria

Master of Science—Mathematics

GPA – 3.66/4.0

University Of Ilorin

Ilorin, Kwara State, Nigeria

Bachelor of Science—Mathematics

GPA – 3.54/4.0

## WORK EXPERIENCE

North Carolina A&T State University

Greensboro, North Carolina, USA

Data Science Research Assistant

Aug. 2022 – Present

- Built and maintained Python-based ML pipelines integrating structured and unstructured data, emphasizing configuration consistency and reproducibility across experiments
- Designed ML pipelines combining structured and unstructured data; achieved **AUC-ROC 99.4%** for environmental risk prediction
- Co-developed a knowledge-graph-powered disaster monitoring system supporting dynamic retrieval and reasoning under uncertainty
- Collaborated with a team to develop a high-speed vehicle tracking system using UAV video data, YOLOv8, ESOTA, and adaptive input sampling, achieving real-time performance of **52 fps**
- Presented research findings through technical visualizations and data narratives to academic and industry stakeholders

- Communicated results via interactive dashboards, Streamlit apps, and technical visualizations to academic and industry stakeholders

#### Toshiba Global Commercial Solutions

Durham, North Carolina, USA

##### Incoming Operations Data Analyst Intern

Jan. 2026 – April 2026 (incoming)

- Support machine learning and analytics workflows for operational KPIs, forecasting, and performance tracking
- Role aligned with applied data science, analytics automation, and business decision support

#### HP (HBCU Future of Work Academy Incubator)

##### Software Engineer/Innovator program

July. 2024– Sept. 2024

- Built and deployed GPT-3.5-powered analytics agents with LangChain, embedding retrieval, and RAG workflows
- Developed Streamlit-based GenAI prototypes and presented solutions to HP senior leadership in an agile environment

#### FrieslandCampina WAMCO

Ikeja, Lagos, Nigeria

##### Commercial Data Analyst/ Business Support Analyst

Jan. 2017 – Dec. 2021

- Created Power BI dashboards and SQL pipelines for executive reporting, improving decision speed and revenue by **20%**
- Developed **demand forecasting models** (regression & ARIMA) improving forecast accuracy and reducing operational costs
- Partnered with **supply chain and logistics teams** to analyze trends, inventory movement, and customer demand
- Built Power BI dashboards tracking customer KPIs, contract terms, billing structures, and sales performance; improved reporting speed by **20%**
- Automated incentive and sales reporting using Python, advanced Excel, and SQL, improving decision speed
- Monitored operational KPIs (billing, fulfillment, receivables), maintaining overdue payments below **10%**

#### GENAI & DATA PROJECTS

- Generative AI Agent for Disaster Monitoring:** Built an LLM-powered geospatial assistant using OpenAI API, LangChain, and embedding retrieval for risk evaluation
- Demand & Operations Dashboard (CarMax Hackathon):** Built Streamlit analytics apps and Looker dashboards for vehicle appraisal KPIs and forecasting
- AI-Assisted Medical Consultation:** Designed an AI-driven medical consultation application integrating OpenAI LLMs, containerized via Docker, and deployed end-to-end on AWS ECR and App Runner to enable scalable inference and real-time health guidance
- Credit Card Fraud Detection:** Designed unsupervised anomaly detection model using isolation forest model and statistical analysis
- Google Fiber Data Analysis:** Developed BigQuery-based ETL workflows and interactive Tableau dashboards to monitor customer calls and feedback, uncovering key service pain points that improved user satisfaction metric

#### AWARD AND HONORS

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|---|------|
| • 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

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|---|----------------------|------|
| • IBM Data Analyst Professional Certificate             | <a href="#">Link</a> | 2025 |
| • Deep Learning Specialization by DeepLearning.AI       | <a href="#">Link</a> | 2024 |
| • Google Business Intelligence Professional Certificate | <a href="#">Link</a> | 2025 |
| • Natural Language Processing in Python                 | <a href="#">Link</a> | 2025 |
| • Databases and SQL for Data Science with Python by IBM | <a href="#">Link</a> | 2024 |

#### LEADERSHIP

- President, ASPRS NCAT Chapter (2023–Present))
- Mentor to 4+ undergraduate researchers
- Member – International Society for Data Science and Analytics, NSBE, AGU, ASPRS, NCAUG