

# MICHAEL KWABENA GYIMADU

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## EDUCATION

### Wingate University

Expected May 2027

*Bachelor of Science in Mathematics, Economics Minor*

*Wingate, NC*

- **GPA:** 4.0
- **Relevant Coursework:** Calculus, Data Structures & Algorithms, Linear Algebra, Business Statistics, Discrete Mathematics, Probability & Statistics, Differential Equations, Economic Impact Analysis

## TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** Python, JavaScript, HTML, CSS, Java, SQLite

**Frameworks & Libraries:** Numpy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, React, NextJS, Keras

**Developer Tools:** Git, GitHub, Excel, Tableau, Flask, PostgreSQL

**Certifications:** Machine Learning Specialization (DeepLearning.ai), SQL for Data Science

## PROJECTS

### Supervised ML Model for Classification | *Python, Scikit-learn, Pandas*

- Developed a **supervised classification model** to predict creditworthiness using a **logistic regression algorithm**. The model uses financial indicators on credit history to assess the likelihood of credit default.
- Achieved a **87%** accuracy in predicting credit default after extensive **data cleaning** and **preprocessing**, demonstrating the model's strong predictive capability based on real-world financial data.

### Inter-Library Loan Summary Dashboard | *Tableau, Data analysis*

- Designed and built an **interactive Tableau dashboard** for 5 library staff to monitor trends in book borrowing and lending, and optimize loan management processes
- **Visualized 300+** book requests by department, volume by month, and lender performance over a 5 year period.

## EXPERIENCE

### Undergraduate Researcher

December 2024 - Present

*Wingate University*

*Wingate, NC*

- Implementing PCA and SVD using **Python (NumPy, OpenCV, Scikit-learn)** to analyze **dimensionality reduction** in facial recognition.
- Benchmarking recognition accuracy & computational efficiency on the **LFW dataset** to optimize algorithm performance in facial recognition tasks.
- Aiming to enhance biometric security and identity verification by improving feature extraction techniques.

### Library & Tech Services Assistant

November 2023 - Present

*Ethel K. Smith Library*

*Wingate, NC*

- Assist **2500+** students/faculty with inter-library book loaning requests, library database access, and technical support, cutting wait times by **50%**.
- Assist with book cataloging, and accurate data entry into the library's database, contributing to improved resource tracking and data integrity.
- Troubleshoot technical issues, resolving over **90%** of computer-related problems for students and faculty.

## LEADERSHIP & CAMPUS INVOLVEMENT

### First Year Committee Member

September 2023 - May 2024

*Wingate Student Government*

*Wingate, NC*

- Developed and presented 3 proposals on housing and meal plans, for **1500+** first year students, which increased student retention by over **60%**

### Aspire Leaders Program Fellow

January 2024 - April 2024

*Aspire Institute*

*Wingate, NC*

- Completed leadership development with a global cohort, guided by Harvard Business School educators, strengthening communication and collaboration skills through masterclasses on networking and personal growth.