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 | **Honors:** President's List(x4)

Relevant Coursework: *Probability & Statistics, Linear Algebra, Calculus, Economic Impact Analysis, Discrete Mathematics, Financial Markets, Financial Accounting*

Technical Skills & Certifications

Programming: Python, C++, SQL, JavaScript/TypeScript
Libraries & Tools: Numpy, pandas, scikit-learn, TensorFlow, Jupyter notebooks, PostgreSQL, React
Finance: Investment analysis, Time-series forecasting, Financial & Risk modeling (DCF, comparables), Asset allocation, Hypothesis testing, Tableau, Microsoft PowerBI, Yahoo Finance API, Bloomberg terminal
Certifications: Machine Learning Specialization(DeepLearning.ai), SQL for Data Science(Coursera)

Projects

Macroeconomic Signal Builder | *Python, pandas, yFinance, scikit-learn*
- Built a **signal system** using economic data to **predict market shifts** and guide stock investment timing.
- Designed **time series pipelines** with rolling stats & volatility metrics to generate **real-time trading signals**.
- Automated signal performance tracking in **Python**, improving development speed and reproducibility.
- **Backtested** signal strategies, **increasing Sharpe ratio by 18%**; cutting losses by 12% vs. passive investing.

Equity Screener | *Python, FastAPI, yFinance, PostgreSQL, NextJS*
- Built a real-time stock screener for undervalued, high-yield, low-risk U.S. equities from a 2,000+ stock universe.
- Implemented filters for valuation, dividends, volatility, and size to surface actionable investment opportunities.
- Developed a full-stack platform with **FastAPI** and **Next.js** to fetch, process, and display real-time market data.
- Optimized **API performance**, **reducing latency by 40%** to improve speed and user experience.

Credit-Default Prediction Model | *Python, scikit-learn, numpy, Flask*
- Built a **logistic regression** model to predict credit default using a dataset of 30,000+ credit card clients.
- Performed **feature scaling** and **hyperparameter tuning (GridSearchCV)** to optimize model performance.
- Achieved strong classification metrics, including **ROC-AUC score of 0.865**, after model evaluation.
- Deployed model via a **Flask API**, enabling real-time default predictions from user-input financial data.

Experience & Campus Involvement

Student Analyst Apr. 2024 - Present
Wingate Investment Club *Wingate, NC*
- Conduct **equity research** and pitch **buy/sell ideas** to a student-run fund managing **$200K in assets**.
- Perform weekly **analysis & valuation** of equities & ETFs using DCF, comparables, & comps-based valuations.
- Inform portfolio decisions and annual rebalancing across 10+ sectors, contributing to **alpha generation**.
- Contributed to the fund **outperforming the S&P 500 by 2%** over the latest fiscal year.

Interlibrary Loan Assistant Nov. 2023 - Present
Ethel K. Smith Library *Wingate, NC*
- Process 200+ book and article requests monthly for students and faculty across 40+ partner institutions.
- Reduced average request turnaround time by 15% in two semesters through efficient tracking and communication.
- Maintained 99% accuracy in **recordkeeping** & **inventory management** using organized workflows.
- Assist with technical support & help **maintain** the library's **website** & research **database** access for students.