

JESSE ANNAN

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EDUCATION

Georgia State University (GSU) **Atlanta, Georgia**
MS. Mathematics; Scientific Computing – GPA 3.87 Dec 2024

- Modules include Optimization, Data Mining, Data Science, Machine Learning, and Applied Matrix Algebra.

Kwame Nkrumah University of Science and Technology (KNUST) **Kumasi, Ghana**
BS. Mathematics – First Class Honors Nov 2021

- Modules include Linear Algebra, Numerical Analysis, Statistics, Mathematical Programming and Calculus.
- **Dissertation:** Application of Machine Learning in Predicting Hostel Prices – A Case Study of KNUST.

WORK EXPERIENCE

Georgia State University **Atlanta, Georgia**
Graduate Research Assistant Apr 2023 – Present

- Collaboratively reproducing and advancing machine learning research papers under the mentorship of [Dr. Yi Ding](#).

Georgia State University **Atlanta, Georgia**
Graduate Lab Assistant Aug 2022 – Present

- Simplified freshman coursework by visually explaining statistical concepts using Microsoft Excel.
- Aided lab instructors in resolving students' challenges with the online learning platform.

Kwame Nkrumah University of Science and Technology **Kumasi, Ghana**
Teaching Assistant Nov 2021 – Aug 2022

- Enhanced student understanding of algorithms by providing python and MATLAB implementation.
- Created LaTeX instructional materials to help students stay synchronized with the instructors' lessons.

Presbyterian Senior High School – Osu **Accra, Ghana**
Teaching Assistant Intern Jun 2018 – Aug 2018

- Tutored sophomore students in mathematics and ICT, administered exams, and formulated grading rubrics.

SKILLS

- | | | | |
|-------------------|----------------|----------------------|----------------------------|
| • Python 3 | • Data Science | • Machine Learning | • Version control with Git |
| • Microsoft Suite | • LaTeX | • Team Collaboration | • Leadership |

PROJECTS

- **US Airline Sentiment Analysis** July 2023
Conducted an in-depth analysis of the Twitter airline dataset, providing airline companies with insights into passengers' concerns and constructed an efficient logistic regression model to classify passengers' feedback.
- **Bike Sharing Demand Analysis** April 2023
Teamed up to create a polynomial regression model that empowered businesses to boost customer satisfaction and profitability simultaneously. Also, experimented with KNN to provide key insights into customer demand trends.

ORGANIZATIONS

- Mathematical Association of America ([MAA](#)) Aug 2022 – Present
- Black in Mathematics Association ([BMA](#)) Jan 2022 – Present
- WeRise Foundation (caregiving) Jan 2021 – Present