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 Math for Deep Learning.

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 (Mentorship) — 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.

SKILLS

- Python 3
- EDA
- Microsoft Office Suite
- MATLAB
- Data Manipulation
- LaTeX
- Data Science
- Data Visualization
- Team Collaboration
- Machine Learning
- Version control with Git
- Team 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 with 80% predictive power to classify passengers' feedback.
- Bike Sharing Demand Analysis — Apr 2023
  Teamed up to create a polynomial regression model with 90% accuracy that empowered businesses to boost customer satisfaction and profitability simultaneously. Also, experimented with KNN to provide key insights into customer demand trends with acceptable misclassification error of 21%.

CONFERENCES ATTENDED

- The 2023 MAA SE Conference held at Coastal Carolina University in Conway from March 9th through 11th.
- The 2022 Scientific Computing Day Conference held at Georgia State University on September 28 through 29th.

ORGANIZATIONS

- Mathematical Association of America (MAA) — Aug 2022 – Present
- Black in Mathematics Association (BMA) — Jan 2022 – Present
- WeRise Foundation (food server and caregiving) — Jan 2021 – Present