Ibrahima Gueye

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EDUCATION

Kennesaw State University May 2025

Bachelor of Science in Computer Science

Courses: Data Structures, Software Engineering, Discrete Math, Algorithms, Machine Learning, Database Systems, Linear Algebra, Operating Systems, Computer Architecture, Statistics

Student Organizations: ColorStack, National Society of Black Engineers (**NSBE**)

Hackathons: Assurant Hackathon (**1st place**), KSU Hackathon for Well-Being (**1st place**), Magmutual Hackathon (**3rd place**)

SKILLS

Languages: Java, Python, C/C++, JavaScript, SQL, Ruby

Operating Systems: Linux, Windows, MacOS

Frameworks: TensorFlow, OpenCV, spaCy, Prodigy, Ruby on Rails, React

Development Tools: Firebase, Google Colab, Jupyter , spaCy, Prodigy, Figma, VS Code,

WORK EXPERIENCE

ML Research Assistant August 2022 - Present

KSU Office of Undergraduate Research Kennesaw, Ga

- Utilized spaCy and Prodigy to annotate clinical notes for classifying suicide attempt and ideation in text.
- Developed RNN and Linear Regression models for malware prediction and achieved an **accuracy of 98%.**
- Lead a presentation on malware prediction with machine learning using TensorFlow, Matplotlib, and Seaborn libraries.
- Awarded the opportunity to present at the National Conference of Undergraduate Research (**NCUR**)

Tech Consultant Intern May 2022 – August 2022

Accenture Atlanta, Ga

- Improved and deployed models that provided application management and consulting services.
- Compiled proposal presentations for the POD team and meticulously documented executive meetings.
- Delivered technical improvements with front-end design which increased client engagement by **30%**.

PERSONAL PROJECTS

Sign Language Detection – *Python, OpenCV*

- Engineered a machine vision system leveraging OpenCV and TensorFlow to convert sign language to English, enhancing communication for the hearing impaired.
- Incorporated transfer learning with TensorFlow object detection API for training the optimized model.
- Trained the detection model through 10,000+ steps, achieving a consistent accuracy of **over 96%**.

Home Price Prediction – *Python*

- Devised a California housing price tool that predicts home prices based on ocean proximity.
- Reprocessed and manipulated the dataset using Pandas and NumPy to impute null values.
- Developed and fine-tuned predictive models such as **Linear Regression** and Random Forest generator to achieve an accuracy of 89%.

Mail API Email System - *Java*

Implemented an automated email dispatch system in Java utilizing the JavaMail API to facilitate seamless email communications.

- Configured SMTP server properties and session management to establish a secure connection for email transmission.
- Programmed the application to parse recipient addresses and personalize email content, enhancing the adaptability of the messaging framework.