

# Diya Kaimal

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## EDUCATION

### Georgia Institute of Technology - Stamps President's Scholar

May 2027

B.S/M.S. Computer Science with a concentration in Artificial Intelligence and Modeling/Simulation  
Economics Minor

GPA: 4.0

**Relevant Coursework:** Object-Oriented Programming, Linear Algebra, Data Structures and Algorithms, Design and Analysis of Algorithms, Statistics and Applications, Game Theory, Introduction to Artificial Intelligence, Machine Learning, Computer Vision  
**SKILLS**

**Technical:** Java, Python, SQL, JavaScript, HTML/CSS, LaTeX, Arduino, C, C++, R, MATLAB, MongoDB, Git, React, Ionic, Node.js, Microsoft Office Suite, Pandas, TensorFlow, PyTorch, Django, Google Cloud, Firebase

## WORK EXPERIENCE

### SLB - Digital Technology Intern

May 2025 – August 2025

- Cut 2024 emissions forecasting error from 16% to 1% by building a hybrid LSTM model and implementing Bayesian inference to dynamically refine predictive coefficients.
- Engineered scalable time-series forecasting pipelines with synthetic data generation, downtime simulations, and uncertainty quantification for robust long-term predictions.
- Integrated statistical modeling and deep learning to create a forecasting framework enabling hard-to-abate industries to evaluate emissions reduction initiatives and economic trade-offs.

### GEORGIA INSTITUTE OF TECHNOLOGY - Teaching Assistant

Aug 2024 – Present

- Collaborate with 45+ TAs and Professors to grade assignments and exams for over 1600 students
- Teach 30 students weekly on covered lecture topics and facilitate group discussion on problem sets
- Answer questions during weekly office hours covering all aspects of linear algebra and integral calculus

## PROJECTS

### BIRD CAMOUFLAGE - Researcher

Dec 2024 - Present

- Work with Dr. Steve Mussmann and Dr. Ben Freeman to quantify bird camouflage in biodiversity efforts
- Utilize advanced machine learning techniques, including training convolutional neural networks to develop models for quantifying and predicting bird camouflage patterns.
- Integrate computer vision frameworks to extract and process ecological data, enhancing the accuracy of biodiversity assessments.

### NAVIGATEABILITY - Cofounder

Sep 2024 - Present

- Built a web app using React.js, Node.js, and Firebase to map accessible campus routes from crowdsourced data and campus facilities
- Helped mobility-impaired users navigate more easily with real-time, user-informed routine
- Placed 2nd in Georgia Tech's FAIR Tech Competition for innovation in accessibility

### CLIMATE INNOVATIONS - Researcher

Jan 2024 - May 2024

- Program group that works to assess the impacts of climate, man-made and natural events on regional ecosystems
- Conducted data analysis on building energy consumption and carbon emissions, using visualization techniques to present findings
- Developed a systematic approach to data collection and analysis, ensuring accurate measurement of energy use intensity (EUI and greenhouse gas emissions).

### MACHINE LEARNING RESEARCH - Researcher

Jun 2022 - Oct 2022

- Published paper on an ML model for NLP to spot fake news
- Developed model to detect fake news with 96% accuracy
- Worked under the guidance of Georgia Tech professor Dr. Guillermo Goldsztein
- Researched different machine learning techniques such as Natural Language Processing and Computer Vision

## LEADERSHIP

### DATA SCIENCE AT GEORGIA TECH - Logistics Director

May 2025 - Present

- Led logistics for Hacklytics, a 1,000+ participant technical hackathon
- Worked to secure over \$100,000 in funding through various corporate sponsors

### BITS OF GOOD - Non-Profit Partnership Consultant

Jan 2026- Present

- Conduct technical discovery and needs assessments with nonprofit stakeholders to scope engineering projects
- Present and defend project proposals before a Product Decision Board, addressing feasibility, resourcing, and impact

### EPIC INTENTIONS CONSULTING - Senior Consultant

Jan 2024 - May 2025

- Conducted in-depth data analysis and visualization of Georgia test scores to identify trends over the course of 10 years
- Designed informative waiting-room slides and flyers, improving accessibility and understanding of services for 9000+ clients
- Drove the development of a scalable, user-friendly LMS system tailored for non-profits and 4000+ learners

## AWARDS

**Stamps President's Scholar:** Full-ride scholarship given to the top 1% of applicants based on scholarship, leadership, progress, and service.

**2nd Place Winner at FairTech:** University competition to create innovations that promote equitable inclusion and access for Georgia Tech