Guteraa Ayana

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Education

Emory University Expected May 2029
Bachelor of Science in Computer Science *Atlanta, Georiga*

- **Relevant Coursework:** Introduction to CS I & II (Java), Selected Programming Languages (HTML + JS), Introduction to Statistical Computing I & II (R + Python)

Experience

Emory University Feb 2026 – Current
Mathematics Tutor *Atlanta, Georgia*

- Tutor 4th grade mathematics through Emory Reads, a service provided by Emory University to elementary-middle schools.
- Connects college students with younger kids to assist in developing reading and math skills.

Northeastern University Aug 2024 – Oct 2025
Research Assistant Intern *Remote*

- Conducted advanced statistical research in soccer analytics, focusing on performance trends, tactical insights, and predictive regression modeling.
- Built reproducible data pipelines using Python and SLURM for large-scale analysis, and applied libraries such as Pandas, NumPy, and Matplotlib for data processing and visualization.
- Results contributed to a publishable research paper on actionable analytic methodologies in sport performance.

Presbyterian Homes and Services May 2023 – Aug 2025
Server *Arden Hills, Minnesota*

- Prepared and organized memory-care dining room to ensure a smooth dining experience for residents.
- Managed and processed resident meal orders in both cafeteria and room service settings.
- Plated meals, maintained a clean dining environment, and provided efficient meal delivery for residents.
- Setup for breakfast the next day by washing dishes, cleaning facilities, and prepping the dining room.

Projects

Personal Portfolio Website | *HTML, JavaScript, CSS*

- Designed website for my personal portfolio using HTML to familiarize myself with CSS and JavaScript.
- Started as simple class project then expanded into personal driven project.
- Website Link: https://guteraaayana.github.io/GuteraaAyana/

Soccer Analytics Research | *Python, MatPlotLib, Numpy, Pandas*

- Analyzed 3,433 professional soccer matches to identify temporal goal-scoring patterns through statistical regression modeling, publishing findings as arXiv pre-print.
- Discovered that goal-scoring probability increases as matches progress, with significantly fewer goals than expected in the early minutes of each half ($\chi^2 \approx 288.62, p = 3.72 \times 10^{-21}$).
- Identified "bursty" goal-scoring behavior where teams are more likely to score consecutive goals shortly after their previous goal, revealing temporal clustering patterns that deviate from random expectation.

Technical Skills

Languages: Python, Java, JavaScript, CSS, HTML, R
Technologies: Matplotlib, Pandas, Numpy, Git

Additional Skills and Interests

Hobbies: Fencing, Biking, Boxing, Reading
Interests: Programming, Video-games, Exercising