

# Victor Verma

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## EDUCATION

### Boston University

Boston, Massachusetts

B.A. in Mathematics and Computer Science, Minor in Data Science

Expected Graduation, May 2025

- **GPA:** 3.85/4.00
- **Honors:** Dean's List, UROP Student Research Award
- **Related Coursework:** Algorithms, Combinatoric Structures, Computer Systems, Concepts of Programming Languages, Introduction to Machine Learning and AI, Probability in Computing, Software Engineering, Applied Abstract Algebra, Differential Equations, Linear Algebra, Multivariate Calculus, and Probability.

## EXPERIENCE

### Questrom School of Business, Boston University

Boston, Massachusetts

Undergraduate Research Assistant

Jan 2023 – Present

- Created a novel dataset documenting the education and work history of 150,000 U.S. State Legislator Candidates from 1967 to 2017, discovering that only 40% of candidates have biodata available online.
- Engineered Python software leveraging the Google Search API, the ChatGPT API, Pandas, and BeautifulSoup to collect and filter the biodata from 600,000 web pages and digital PDFs.
- Developed a neural network model achieving a 72% accuracy rate in classifying biodata outputs as true or false.
- Increased data collection efficiency by 16x by implementing multithreading, rate limiting, and error handling.

### Questrom School of Business, Boston University

Boston, Massachusetts

Computer Assistant/Programmer

Sep 2021 – Present

- Engaged directly with professors, students, and faculty members at the Questrom Open Access Lab, devising prompt and effective technology solutions for classroom challenges.
- Demonstrated proficiency in Salesforce Lightning by successfully completing 20 Salesforce Trailhead Modules.

## PROJECTS

### StatSense AI

Nov 2023 – Present

- Built LSTM and Simple RNN models from scratch with Keras to forecast weekly NFL statistics for QBs, RBs, WRs, and TEs using their statistics in time series, achieving a 75% success rate against player props set by sportsbooks.

### Nutrisistant

Oct 2023 – Dec 2023

- Collaborated as a team of 5 to build a MERN stack web app enabling users to query nutritional information, receive recipe suggestions from ingredients, and retrieve their search history.
- Incorporated Google OAuth for streamlined user account creation alongside the integration of 2 REST APIs.

### Portfolio

May 2023 – Dec 2023

- Created a portfolio website utilizing the MERN stack, TypeScript, and Bootstrap, and deployed on Vercel.

## ACTIVITIES AND LEADERSHIP

### Kappa Theta Pi Professional Technology Fraternity - Lambda Chapter

Boston, Massachusetts

App Committee Head

Sep 2023 – Present

- Led a 9-member team in designing and developing a centralized website hosting academic and professional resources for the frat, including course information, professor reviews, and important links and documents.
- Mentored team members in full-stack development and best design practices by providing resources and hosting biweekly meetings, fostering an environment for skill sharing and development within the organization.

## SKILLS

**Languages and Frameworks:** Python, JavaScript/TypeScript, HTML/CSS, React.js, Node.js, MongoDB.

**Technical:** Machine Learning, Object-Oriented Programming, Web Development, REST APIs, Web Scraping.

**Tools and Libraries:** Jupyter Notebooks, Git, Bootstrap, Pandas, BeautifulSoup, Tensorflow, Scikit-Learn.