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 neural network, random forest, XGBoost, and k-nearest neighbors models 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.