

# Victor Verma

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## EDUCATION

### Boston University

Boston, Massachusetts

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

May 2025

- **GPA:** 3.85/4.00
- **Honors:** Dean's List, UROP Student Research Award
- **Relevant Coursework:** Algorithms, Computer Systems, Data Science Tools and Applications, Data Structures, Functional Programming, Machine Learning and AI, Probability in Computing, Software Engineering, Differential Equations, Linear Algebra, Multivariate Calculus, Probability, and Stochastic Processes.

## WORK 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 only 40% of candidates have biodata available online.
- Engineered Python software leveraging the Google Search API, the OpenAI API, pandas, and BeautifulSoup to collect and filter 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 and 0.80 f1 score 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 completing 20 Salesforce Trailhead Modules.

### 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.

## PROJECTS

### Letterboxd Movie Recommendations

Sep 2023 – Present

- Implemented a content-based filtering system that leverages XGBoost and utilizes 2000+ user ratings and movie metadata points scraped from the Letterboxd website to generate personalized movie recommendations.

### StatSense AI

Nov 2023 – Jan 2024

- Built LSTM and Simple RNN models with TensorFlow to forecast NFL statistics for QBs, RBs, WRs, and TEs using weekly 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 search history.
- Incorporated Google OAuth for streamlined user account creation alongside the integration of 2 REST APIs.

### Portfolio

May 2023 – Dec 2023

- Designed a portfolio website utilizing the MERN stack, TypeScript, Bootstrap, and Tailwind CSS.

## SKILLS

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

**Tools and Libraries:** Git, TensorFlow, Pandas, Scikit-Learn, NumPy, Matplotlib, BeautifulSoup, Bootstrap.