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 – Dec 2023*

- 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, Tailwind CSS.