

# Victor Verma

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## EDUCATION

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### Boston University

Boston, Massachusetts

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

May 2025

- **GPA:** 3.87/4.00
- **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

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### Savvas Learning Company

Boston, Massachusetts

Software Development Engineer Intern

Jun 2024 – Aug 2024

- Incoming Software Development Engineer Intern.

### Questrom School of Business, Boston University

Boston, Massachusetts

Undergraduate Research Assistant

Jan 2023 – May 2024

- 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 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.

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

Boston, Massachusetts

App Committee Head

Sep 2023 – Present

- Led a 5-member team in designing and developing a centralized website hosting academic and professional resources for 80+ fraternity members, including course details, professor reviews, and important information.
- Mentored team members in full-stack development and best design practices by providing resources and hosting biweekly meetings, fostering an environment for learning and collaboration within the organization.

## PROJECTS

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### Letterboxd Movie Recommendations

- Engineered a content-based filtering system leveraging random forests and 40,000+ data points to generate personalized movie recommendations for 500+ users in 40+ countries and deployed a full-stack web-app using React.js, TypeScript, Tailwind CSS, Flask, and Supabase.
- Designed 6 unique user profile statistics, updated in real-time based on activity from other users across the platform, along with a downloadable data visualization of individual movie rating habits.
- Created 2 GitHub Actions to automate the weekly scraping of publicly accessible Letterboxd data and the monthly update of 300+ user statistics.

### StatSense AI

- Created 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.

### Portfolio

- Built a full-stack portfolio website utilizing React.js, TypeScript, Tailwind CSS, Node.js, and MongoDB.

## SKILLS

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

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