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:** 3.87/4.00
- **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

Savvas Learning Company **Boston, Massachusetts**

Software Developer Engineer Intern *Jun 2024 – Aug 2024*

- Incoming Software Developer 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*

- Leading 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

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.
- Generated 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

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

SKILLS

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.