Saharsh Yeruva | Westborough, MA · yeruva@saharsh.xyz · (508) 797-7786 · linkedin.com/in/saharshxyz

Education

University of Massachusetts, Amherst · Commonwealth Honors College · Dean's List *Sept 2022 – May 2025*

Credentials: B.S. Computer Science, B.S. Mathematics (Statistics and Data Science Concentration), B.A. Economics, B.A. Linguistics, B.S. Psychology, B.A. Philosophy, Business Minor

Activities & Societies: Product Management Club, Machine Learning Club, Stoic Student Association, Math Club

Relevant Coursework: Statistical Methods for Data Science, Algorithms, Natural Language Processing, Statistical Computing, Search Engines, Regression & Analysis of Variance, Web Programming, Econometrics

Skills

Software Development: TypeScript (React, Next.js, Node.js), Python, Java, C, Sass, SQL, MongoDB, Web Scraping
Data Science & Analysis: Machine Learning (TensorFlow, PyTorch, scikit-learn), Natural Language Processing (NLTK, spaCy), Data Visualization (Matplotlib, Plotly), Data Structures and Algorithms, R (ggplot, tidyverse, shiny)

Experience

Software Engineer Intern, Chewy, Inc. *May 2024 – Aug 2024*

- Integrated a machine learning-powered Returns Decision Engine (RDE), reducing annual return-related losses by $18M through strategic policy adjustments. Played a key role in introducing SKU profitability data, adding $21.7M in incremental contribution margin.
- Streamlined the return processing system by implementing features that improved agent experience by simplifying the interface, leading to a reduction in processing time by 5-7 seconds per return.
- Designed and implemented a system that reduced technical debt by 70% and improved the efficiency and security of updating return-related decision trees. Enhanced readability, maintainability, and the overall developer experience.

Mentor & Mentor Manager, CodeDay Labs by CodeDay *Jun 2020 – Aug 2023*

- Mentored 12 students across 4 teams through full lifecycle development of machine learning and web applications, guiding them in data science concepts, modern frameworks (React, TypeScript), APIs, and deploying production-grade software. Leveraged expertise in project scoping, Agile methodologies, and effective student mentorship.
- Conceptualized and launched virtual internship program providing over 300 underrepresented students immersive real-world experience during pandemic. Spearheaded curriculum design, mentor training, and oversight of 20+ concurrent projects focused on machine learning, web dev, data visualization, and more.
- Cultivated inclusive environments by tailoring mentorship approaches to individuals' backgrounds, learning styles, and skill levels. Demonstrated leadership in managing 40+ mentors, resolving conflicts, keeping teams motivated, and ensuring adherence to best practices. Built empathy, adaptability, and ability to foster collaborative, high-performing teams.

President, Westborough Hack Club *Feb 2020 – May 2021*

- Founded the Hack Club at Westborough High, rapidly growing its membership to several dozen through innovative marketing and faculty support while leading workshops on HTML/CSS, d3.js, JavaScript, and React to equip students with practical programming skills.
- Spearheaded club activities that led to members winning local hackathons and programming competitions, demonstrating the club's significant impact on enhancing students' technical competencies and competitive abilities in a collaborative learning environment.
- Forged partnerships with external sponsors and the global Hack Club network to secure resources and opportunities, leveraging these collaborations to offer an enriching club experience that also fostered personal growth in leadership, technical instruction, and problem-solving skills.

Project Manager & Hardware Team Member, FIRST Robotics Competition Team 4048 *Sept 2017 – May 2019*

- Led the conceptualization and 3D CAD design of innovative robotics mechanisms, contributing to the team's award-winning performance in national competitions through creative problem-solving and technical expertise.
- Managed the manufacturing and assembly of complex robotic parts using diverse metalworking tools, overcoming technical challenges to ensure high-quality outcomes.
- Implemented and refined project management strategies using Kanban and Gantt charts, maintaining detailed progress logs that ensured efficient task completion across sub-teams and directly contributed to the team's success.

Research Projects

Paraphrase Detection: Collaborated on a research paper exploring transformer models like BERT for paraphrase detection. Developed an approach phrasing paraphrase identification as a text classification task, achieving 87.5% accuracy on the Microsoft Research Paraphrase Corpus. Provided insights into enhancing model generalization, interpretability, and handling complex linguistics.