Sumukh Veeramalla

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Education

University of Massachusetts Boston — Boston, MA
Ph.D. in Computer Science (GPA: 3.95/4.00) — Sep. 2025 – Present
M.S. in Computer Science (En route to Ph.D.; expected May 2026) — Sep. 2024 – May 2026
- Began graduate studies in Fall 2024; transitioned to the Ph.D. program after one year, pursuing doctoral research while completing the Master's degree en route.

NIT Andhra Pradesh — India
B.Tech. in Computer Science and Engineering (GPA: 7.71/10) — Nov. 2020 – May 2024

Technical Skills

Languages: Python, Java, C++, JavaScript, HTML, CSS, SQL, R

Frameworks: React, Node.js, NumPy, Pandas, Matplotlib, Keras, TensorFlow, PyTorch, OpenCV

Tools/DB: Git, VS Code, Selenium, Postman, MySQL, PostgreSQL, MongoDB

Certifications: PyTorch Specialization, Stanford ML, NPTEL Data Science

Work Experience

University of Massachusetts Boston — Boston, MA
Teaching Assistant — ENGIN 104 & ENGIN 346 — Sep. 2025 – Present
- Supported instruction for 100+ students across intro (circuits, coding) and advanced (embedded systems, ARM/C++, real-time) courses.
- Led weekly labs and discussions; mentored on projects and provided detailed feedback on assignments and exams.
- Assisted instructors with grading consistency, exam preparation, and project evaluations, improving grading turnaround time by **50%**.

Research Assistant — Mobile Computing Lab — Jan. 2025 – Aug. 2025
- Built a **web app** for the VAS dataset using Node.js/Express + MongoDB, enabling multimodal data browsing and visualization for 10,000+ samples.
- Contributed technical content on **AI agents, knowledge graphs, and LLMs** to the **NutriTalk** grant proposal — an AI-driven dietary assessment system.
- Documented experimental workflows ensuring reproducibility and scalability for future research projects.

Projects

Bachelor's Thesis: Skeleton-based Action Recognition — Oct. 2023 – Apr. 2024
- Proposed ConMLP-based model with encoder–decoder using Contrastive + Reconstruction losses; achieved **93.55%** accuracy on NTU RGB+D.
- Conducted end-to-end model training/evaluation in PyTorch.

Image Caption Generation — Jan. 2023 – Apr. 2023
- Built pipelines: (1) Data2Vec + Transformer (**BLEU-1 = 0.51**, +8%) and (2) CNN + Transformer hybrid for robustness.

Food Delivery Web App (MERN Stack) — Oct. 2022 – Dec. 2022
- Implemented core features (browse, cart, orders, auth) using MongoDB, Express.js, React, Node.js.

Awards & Achievements

LIVE AI Ivy Plus Hackathon — Harvard University — Feb. 2025
- **Harvard Bronze Winner & Multi-Category Honoree for "Roko"** (Link).
- Secured **2nd Place (Blockchain) & 3rd Place (AI/ML)**; also received **Global Honorable Mentions** across Blockchain, FinTech, Development, and Innovation.
- Developed **Roko**, a distributed LLM inference/training platform (Hedera + Petals) enabling cost-efficient compute via crypto-incentives.