

Anusri Saraf

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EDUCATION

Massachusetts Institute of Technology

Bachelor of Science in Computer Science and Artificial Intelligence, Bachelor of Science in Business Analytics, Minor in Mathematics, Minor in Music

Master of Engineering in Computer Science and Artificial Intelligence

Relevant Coursework: Discrete Math, Optimization Methods, Natural Language Processing, Machine Learning, Computer Vision, Advanced Algorithms, Networks, System Modeling and Control Design

Cambridge, MA

Aug. 2022 – May 2026

Aug. 2026 – May 2027

EXPERIENCE

MIT Plasma Science and Fusion Center

Undergraduate Machine Learning & Computational Modeling Researcher

Cambridge, MA

Sept 2025 – Present

- Built and applied machine learning optimization models to complex high-dimensional design problems, running physics-driven simulations of stellar-like plasma experiments at the National Ignition Facility (NIF)

MIT Futuretech Lab

Undergraduate Machine Learning Researcher

Cambridge, MA

Sept 2024 – Present

- Conducted in-depth analysis of state-of-the-art models from novel research papers, establishing benchmarks for model performance and quality
- Developed analytical tools and visualizations using Python and data science libraries to map the evolution and trends in key AI research areas

F5

Software Engineering Intern

San Jose, CA

June 2025 – Aug 2025

- Developed a VPN-over-HTTP3 solution by transmitting arbitrary packets over QUIC/UDP and integrating with F5's proprietary Traffic Management Microkernel (TMM); sole contributor responsible for research, protocol integration, legacy code interfacing, and performance optimization.

Lawrence Livermore National Lab

Full-Stack Software Developer Intern

Livermore, CA

June 2023 - Aug 2023, June 2024 - Aug 2024

- Implemented responsive and intuitive user interfaces using React and React-Query, and developed server-side logic, APIs, and database schemas to support full-stack application functionality.
- Conducted thorough unit, integration, and end-to-end testing (Cypress, React Testing Library) to ensure application reliability and stability.
- Built a Cypress automated E2E test suite for analytics tools at the National Ignition Facility (NIF).
- Designed and implemented dashboards for analytics tools using MongoDB, Denodo, ReactJS, and Jupyter Notebooks to present data in an accessible format.

PROJECTS

MIT Pokerbots | President

Aug 2023 – Present

- Led team to develop AI Poker Bot development competition and class hosted by MIT each year, hosted at <https://pokerbots.org/>
- Organized and taught Pokerbots class during January, introducing programming, AI, and game theory concepts to over 400 students, raising and managing a \$100k+ budget

Enhancing Robustness in Sentiment Analysis | Co-author

Sept 2024 – Dec 2024

- Co-authored a natural language processing paper investigating the effectiveness of BERT transformer models, optimized for informal text analysis, in performing sentiment analysis on social media content through data augmentation strategies

Small Transformers for Visually Indicated Sounds | Co-author

Feb 2024 – May 2024

- Co-authored a computer vision paper investigating the effectiveness of transformer models, optimized for single GPU inference, in generating audio sequences from video inputs

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C/C++, SQL (Postgres), HTML/CSS, R, Ruby, Assembly, Kotlin

Frameworks: React.js, Node.js, Flask, Cypress, Pytest, Spring Boot, Material-UI, FastAPI, JUnit

Developer Tools: AWS, MongoDB, Pandas, Scikit-learn, TensorFlow, Keras, Oracle, Gradle PyTorch, NumPy, Matplotlib, MATLAB, Git, Docker, React-query, React Testing Library, Unix Shell, Ghidra, Splunk, GDB