

# Anusri Saraf

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## EDUCATION

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**Massachusetts Institute of Technology** Cambridge, MA  
*Bachelor of Science in Computer Science and Artificial Intelligence, Bachelor of Science in Business Analytics, Minor in Mathematics, Minor in Music* Aug. 2022 – May 2026  
*Master of Engineering in Computer Science and Artificial Intelligence* Aug. 2026 – May 2027  
Relevant Coursework: Discrete Math, Optimization Methods, Natural Language Processing, Machine Learning, Computer Vision, Advanced Algorithms, Networks, System Modeling and Control Design

## EXPERIENCE

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**MIT Plasma Science and Fusion Center** Cambridge, MA  
*Undergraduate Machine Learning & Computational Modeling Researcher* 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** Cambridge, MA  
*Undergraduate Machine Learning Researcher* 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** San Jose, CA  
*Software Engineering Intern* 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** Livermore, CA  
*Full-Stack Software Developer Intern* 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

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**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

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**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