

AADHITYA SRIRAM

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OBJECTIVE

University batch topper (Top 0.5%) aiming to pursue an MS in Computer Science to expand technical depth in advanced computing, algorithms, and artificial intelligence systems to work in roles involving software development to build impactful solutions.

EDUCATION

BE Computer Science and Engineering
Anna University (CEG Campus), Chennai

November 2022 – June 2026
CGPA: 9.51/10

Course Work: Advanced Calculus, Discrete Mathematics, Probability & Statistics, Linear Algebra, C Programming, Data Structures & Algorithms, Digital Fundamentals & Computer Organisation, Computer Architecture, Operating Systems, Database Management Systems, Compiler Design, Object Oriented Analysis and Design, Theory of Computation, Computer Networks, Machine Learning, Java Programming, Data Mining, Deep Learning Techniques, Cryptography & Network Security, Information Security, Social Network Analysis, GPU Computing.

ACADEMIC PROJECTS

Title: AutoMeta [Indian Institute of Technology Madras, Chennai]

May 2025 – Present

Team Size: 1

Role: Team Lead

Created an Agentic AI system capable of running analyses and simulations on constraint-based metabolic models, which biological researchers currently use to interact with the system without needing to write or execute code. Used LlamaIndex Re-Act agent framework, FastAPI, CobraPy, and Streamlit to orchestrate the application.

Title: AnaBot [Sri Ramachandra Medical College & Research Institute]

March 2025 – Present

Team Size: 1

Role: Team Lead

Developed a multimodal system to supplement medical education for undergraduate and postgraduate students at Sri Ramachandra Medical College by enabling natural language interaction with anatomy resources. Used Retrieval-Augmented Generation with the LangGraph framework for memory, a local FAISS vector database for context-aware retrieval, and a React.js front end.

Title: ResMate [Independent Project]

January 2025 – March 2025

Team Size: 1

Role: Team Lead

Built a local, private on-device AI research assistant that supports academic workflows. Orchestrated a LlamaIndex ReActAgent via Ollama, integrating PDF summarisation, FAISS-based semantic retrieval over local corpora, Pandas data analysis, bilingual dictionary/translation, and DuckDuckGo web search into a single workflow—streamlining literature review and data lookup for student researchers.

INTERNSHIPS

Incoming SDE/MLE Intern, Apple India Private Limited

Jan 2026 – June 2026

Chosen from 585 applicants for a highly selective internship position at the IS&T department.

Research Intern, Indian Institute of Technology Madras, Chennai

May 2025 – July 2025

Worked on developing Large Language Models (LLMs) for mathematical domains, contributing to end-to-end pipeline development for dataset curation, hyperparameter tuning, model training, and benchmarking. Also, worked on building an Agentic AI system for the biological domain from scratch, enabling natural language interaction with constraint-based metabolic models, allowing researchers without coding expertise to run simulations and analyses.

AI Intern, Sarvam AI, Chennai**July 2024 – November 2024**

Worked on the development of Speech-to-Text and Text-to-Speech pipelines, including backend components for speech recognition and audio pre-processing. Developed a React-based application with a Flask backend to visualise and manage large training datasets, enhancing team productivity. Additionally, contributed to data collection and pre-processing workflows, including text normalisation, audio normalisation and enhancement, database sanity checks, and preparation of training corpora for large language model development.

Full Stack Developer Intern, CloverBridge Technologies**April 2024 – May 2024**

Worked on feature development for a full-stack web application, seamless booking and management of sporting venues using React.js, Django, and PostgreSQL. Collaborated with the development team to design and implement innovative solutions such as Admin features, Venue customisation, Pop Up features, and CRUD operations.

TECHNICAL SKILLS**Programming Languages:** Python, Java, C, C++, HTML5, CSS3, MIPS, JavaScript, LaTeX**Frameworks & Libraries:** FastAPI, Flask, ReactJS, NodeJS, Langchain, LlamaIndex, LangGraph**Database:** MySQL, PL/SQL, Postgres SQL, MongoDB, SQLite3, Pinecone, FAISS, GCP, Azure.**Tools & Technologies:** Git/GitHub, Docker, VAD tools (silerovad, pyannote), HuggingFace.**CERTIFICATIONS/WORKSHOPS/ADDITIONAL COURSES:**

IBM RAG and Agentic AI (Online - Coursera)

September 2025

JAVA Spring Boot Essentials (Offline)

June 2025

AWS Academy Cloud Foundations (Offline)

March 2024

RESEARCH/PUBLICATIONS (As First Author)

1. Sriram A, N M, Sundan B, Krishnamoorthy S. Context-Aware Retrieval-Augmented Generation for Artificial Intelligence in Urology. Cureus. 2025 Jul 17;17(7):e88167. doi: 10.7759/cureus.88167. PMID: 40821282; PMCID: PMC12357645.
2. Sriram A. AI and Machine Learning in Urology: Current Uses and Future Directions. Science and Technology: Developments and Applications Vol. 8. p: 124-151. April 2025. DOI: <https://doi.org/10.9734/bpi/stda/v8/5018>.
3. Sriram A, Ramachandran K, Krishnamoorthy S. Artificial Intelligence in Medical Education: Transforming Learning and Practice. Cureus. 2025 Mar 19;17(3):e80852. doi: 10.7759/cureus.80852. PMID: 40255837; PMCID: PMC12007958.
4. Sriram A, Bose Sundan. Graphical User Interface with Python: Enabling Easier Adoption – A Beginner's Guide. American Journal of Engineering Research (AJER) 2024. 13 (8) p. 33- 40.
5. Sriram A. Digitalization during COVID-19 Pandemic: Its Impact on Humankind and Modern Education in 2020. International J of Creative Research Thoughts (IJCRT). 2021. 9 (4) p. 400-408.
6. Sriram A. Generation Z Students: Why Python Programming is their Best Bet. International Journal for Research in Applied Science and Engineering Technology (IJRASET). May 2021; 9(5): 490-493. DOI:10.22214/ijraset.2021.34185.
7. Sriram A. Data science: a beginner's guide to the power of information. Journal of Emerging Technologies and Innovative Research (JETIR). 2021 8 (6). p. a885-891.

ACHIEVEMENTS/CO-CURRICULAR/EXTRACURRICULAR**2025:** Signed an MOU with SRMC to supplement Medical Education through AnaBot.**2025:** Was awarded 25,000 INR for research via the state-level "Student Innovative Project" Grant program.**2025:** Ranked 85th out of 20,000 teams in the Amazon Machine Learning Challenge 2025.**2025:** Solved 300+ competitive programming problems on platforms such as LeetCode and CodeChef.**2025:** Volunteered over 50+ Hrs in various campaigns in Lions Club of Golden Roses.**2024:** Recognised as a Department Topper of the Computer Science Department.**2023:** Stood First in the Codex contest and Third in the Codeverse of Madness competition

2022: Awarded "Best Outgoing Student Award – School Topper & All-Rounder"
2022: Ranked among the Top 1% of students in the state of Tamil Nadu in the "High School State Finals"
2020: Presented a business model in the "Student Entrepreneurial Challenge" Competition organised by the University of Arizona.

LEADERSHIP ROLES

Chairperson, IEEE Computer Society, Anna University **Apr 2024 – Dec 2024**

- Founded and led the inaugural IEEE Computer Society at Anna University, building its operational and event framework from the ground up.
- Designed and developed websites for high-profile events (WIE-ILS, WIECON 2024) using WordPress, Webflow, and Figma.
- Partnered with the IEEE Madras Section to execute impactful Women Empowerment programs, driving engagement and visibility at a state level.

Deputy Director, Competitive Programming Wing
Association for Computing Machinery (ACM), Anna University **Oct 2023 – May 2025**

- Directed technical sessions, contests, and workshops by crafting advanced programming problems, fostering a competitive coding culture on campus.
- Led organisation of technical and non-technical events for departmental symposiums, managing teams and logistics to ensure smooth execution.

Junior Head of Tech, AUSEC (Anna University Student Entrepreneurship Club)
Centre for Entrepreneurial Development, Anna University **Sept 2023 – Jun 2024**

- Built event websites (Enantra, Start-up Weekend) using ReactJS, integrated with MongoDB, and deployed via Netlify.
- Organised and promoted entrepreneurship-focused events, encouraging innovation and the adoption of emerging technology trends among students.

COMMUNITY INVOLVEMENT

Digital Designing for Sri Arunodhayam Trust	August 2025
Lake Clean-Up Campaign	March 2025
Tree Plantation Campaign	December 2024

LANGUAGES KNOWN

English (proficient), Tamil (native), Hindi (basic).