Siddharth Srinivasan

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PROFESSIONAL SUMMARY

I am a passionate developer who loves using machine learning to solve real-world problems. I thrive on making AI more accessible, building intuitive tech, and constantly pushing the boundaries of innovation. With a strong background in full-stack development and AI, I'm always exploring new ways to create impactful solutions.

EDUCATION

St Joseph's College Of Engineering **Chennai**
- B. Tech in Information Technology, 2028 CGPA **9.40**

Sethu Bhaskara Matriculation Higher Secondary School **Chennai**
- SSLC **93%**
- HSC **89%**

PROJECTS

ARIS | Python, Flask, AI/ML **Jan 2025**
- Developed a research tool that finds citations, simplifies and contextualizes research papers, and generates personalized, self-paced video lectures.
- Built a custom LLM from scratch, improving contextual understanding and boosting research insight accuracy by 30%
- Led the development of Aris, building a custom LLM from scratch to enhance contextual understanding and streamline AI-driven research.

SPIRE | AI, LLM, Full-Stack Development **Feb 2025**
- Created an AI-powered study platform with an LLM chatbot, real-time code compiler, and AI-generated problem sets.
- Automated question generation and AI assistance, increasing study efficiency and reducing manual prep time by 40%.
- Led an LLM chatbot, auto-generated questions, and organized study materials intelligently.

RAFT | AI, Swarm Intelligence, Traffic Optimization **Mar 2025**
- Designed a swarm-intelligence-based traffic optimizer that simulated a 25% reduction in congestion and 15% faster commute times.
- Engineered intelligent rerouting strategies that balance traffic loads, reducing bottlenecks and optimizing commute times.
- Built a Python, Flask, and Leaflet-based tool to visualize real-time traffic dynamics.

ACHIEVEMENTS

- **Winner, Hack India Spark 1 Hackathon** – among 200+ national teams (SingularityNET & Sharp)
- **Winner, Ideathon 1.0 – ISTE**
- **Best UG Paper, IMSTEM 2025** International Conference

TECHNICAL SKILLS

Languages | Python, Java, C/C++, HTML/CSS, MySQL
Frameworks | Flask (REST APIs), Angular
Developer Tools | Git, Docker, Visual Studio Code, PyCharm, AWS (EC2, S3)
Libraries | TensorFlow (Transformers, CNNs), PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib

Soft skills | Leadership, Team Collaboration, Problem-Solving, Effective Communication, Time Management