

K S SUDHAKAR

 +91 9789094622 |  sudhakarsadasivam@gmail.com |  [in/k-s-sudhakar](#) |  [sudhakar-1104](#) |  [Portfolio](#)

SUMMARY

Final-year Computer Science student with a genuine interest in solving problems through code. Recently gained hands-on experience with AI workflows during an internship at Antz AI, complementing a diverse background in web development and embedded systems. Comfortable working with Python, Java, and C++, and eager to join a collaborative team where I can apply my skills to build meaningful software solutions.

EDUCATION

Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer Science and Engineering; CGPA: 6.84

Coimbatore, India

2022 – 2026

SBOA Matriculation Higher Secondary School

Higher Secondary Certificate (HSC); Percentage: 88%

Coimbatore, India

Completed 2022

EXPERIENCE

Antz AI

May 2025 – July 2025

AI Engineering Intern

Hybrid

- Gained hands-on experience in developing LLM-powered Retrieval-Augmented Generation (RAG) pipelines.
- Integrated vector databases for semantic search and context-driven query processing.
- Performed testing, validation, and performance optimization of AI workflows to build scalable applications.

PROJECTS

Context-Aware Medical Q&A | LlamaIndex, Qdrant, Agno Agent

Aug 2025 – Present

- Built a RAG pipeline by ingesting medical documents with LlamaIndex and storing embeddings in Qdrant.
- Orchestrated query handling with Agno Agent and integrated Ollama's TinyLlama LLM to generate domain-specific responses.

Cloud Pattern Analysis for Aviation Safety | Computer Vision, ML

Aug 2024 – Nov 2024

- Implemented a Digital Image Processing (DIP) system using onboard camera feeds to analyze cloud patterns.
- Applied ML algorithms to detect cloud coverage, density, and turbulence potential, providing real-time pilot advisories.

Formula 1 Fan Hub | Web Development, UI/UX

Jan 2024 – May 2024

- Designed the frontend for an F1-based website supporting video streaming and e-commerce product access.
- Focused on creating a strong, responsive user interface design for fan engagement.

State & City Wise Crime Database | DBMS, SQL, Backend

July 2023 – Oct 2023

- Created a comprehensive DBMS project focusing on detailed cyber-crime records for states and cities.
- Implemented CRUD operations to add or remove crime data in the backend with visualization features.

IoT Based Stock Prediction | Embedded Systems, STM32F4

Jan 2023 – May 2023

- Developed an STM32F4-based system using FSR sensors with ADC calibration for digital conversion.
- Integrated UART communication and GPIO-controlled LED indicators for real-time monitoring.

Movie Ticket Booking System | Java, OOP

Aug 2022 – Dec 2022

- Developed a Java-based application applying OOP concepts like encapsulation and polymorphism.
- Enabled users to browse movies, book tickets, and generate confirmations through an interactive system.

CERTIFICATIONS

Cloud Foundations: GCP And AWS

Cybersecurity: Introduction To Ethical Hacker by CISCO

Coursework: Computer Networks, AI, Cryptography

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL

Tools: Microsoft Suite, Google Suite, Jira

Areas of Interest: Machine Learning, Operating Systems, Web Development, DBMS, Scrum Management