

K S SUDHAKAR

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SUMMARY

Computer Science graduate with a strong foundation in problem solving and a passion for building scalable software solutions. Experienced in developing applications across web and systems domains with a keen interest in leveraging emerging technologies to solve real world challenges. Proficient in Python, Java and C++, with a focus on writing clean, optimized, and maintainable code. Adept at quickly learning new tools and technologies, and driven to contribute to innovative, high impact projects in a collaborative environment.

EDUCATION

Amrita Vishwa Vidyapeetham Coimbatore, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 7.00 2022 – 2026

SBOA Matriculation Higher Secondary School Coimbatore, India
Higher Secondary Certificate (HSC); Percentage: 88% 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