

ARUN K

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Summary

Computer Science student specializing in Artificial Intelligence with experience in Flutter, MERN Stack, Java, Python, and SQL. Strong foundation in Data Structures, Algorithms, REST APIs, and database management, with a passion for building scalable applications and solving real-world problems.

Skills

Languages: Java, Python, Flutter

Web Development: HTML, CSS, JavaScript, MERN Stack

Database: SQL, MongoDB

Tools: NumPy, Pandas, Scikit-learn, TensorFlow/PyTorch, Hugging Face Transformers, LangChain, Vector Databases (FAISS/Chroma), Claude, Git & GitHub, MS Office (Word, Excel, PowerPoint)

Projects

AI Code Assistant | LLM

March 2025 – July 2025

- Developed an AI-powered Code Assistant using Python, FastAPI, LangChain, Hugging Face, FAISS, and Llama 3 to analyze, explain, and optimize C/C++, Java, and Python code using Large Language Models (LLMs).
- Implemented semantic code retrieval, bug detection, code summarization, optimization suggestions, unit test generation, and conversational code understanding to improve developer productivity and debugging efficiency.

DURGA – SafeConnect | Flutter, Dart, Kotlin, Android

July 2026 — Present

- Engineered a cross-platform mobile safety application using Flutter and Kotlin, providing instant SOS alerts, live location sharing, emergency helpline access, and trusted contact management.
- Designed reusable UI components and integrated GPS location services, Google Maps, camera/video evidence capture, and local data persistence for a responsive user experience.
- Implemented AI-based threat assessment, native Android services, and Flutter–Kotlin integration through Method Channels, laying the foundation for hardware-triggered emergency activation and real-time safety features.

AI Document Q&A | RAG

June 2026 — Present

- Developed a Retrieval-Augmented Generation (RAG) application using Python, LangChain, FAISS/ChromaDB, Hugging Face, and Streamlit to enable intelligent question answering from PDF documents using Large Language Models (LLMs).
- Implemented semantic search with vector embeddings, document chunking, and source citation to deliver accurate, context-aware responses while supporting conversational chat history for an enhanced user experience.

Awards & Certifications

- **Blackbuck MERN Stack Development Certificate (2025):** Completed hands-on training in MongoDB, Express.js, React.js, and Node.js by building full-stack web applications, implementing REST APIs, database integration, and responsive user interfaces.
- **AWS Academy Graduate – Cloud Foundations — Amazon Web Services (2025):** Completed foundational training in cloud computing, covering AWS core services, cloud architecture, security, networking, storage, databases, pricing models, and deployment best practices through hands-on labs and practical exercises.
- **AWS Academy Graduate – Cloud Architecting — Amazon Web Services (2025):** Completed hands-on training in designing scalable, secure, and highly available cloud architectures using AWS services, including compute, networking, storage, databases, load balancing, and architectural best practices.

Education

B.Tech in Computer Science and Engineering (AI Specialization)

2023-2027

Vellore Institute of Technology, Andhra Pradesh University

CGPA: 8.01 / 10