SIDDHARTHA

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Summary

An engineering student with internship experience at the National Informatics Centre, building REST APIs and file management systems. Strong in backend fundamentals and system design, with personal projects in multi-agent AI systems and applied machine learning.

Experience

National Informatics Centre (NIC)　　　　　　　　　　　　　　　　　　**Dec 2025 – Present**
Software Development Intern　　　　　　　　　　　　　　　　　　　　　　　　　　*India*

- Developed backend REST APIs for file upload, storage, and retrieval in a production environment
- Implemented Multer-based file handling with validation and structured metadata persistence
- Designed MongoDB schemas to manage file records and related attributes
- Worked within an existing backend codebase following modular and MVC-style architecture

Projects

Enterprise Multi-Agent AI Platform

- Architected a LangGraph-driven multi-agent system coordinating retrieval, SQL reasoning, web research, and task planning via a supervised state machine
- Implemented a scalable RAG pipeline with metadata-aware chunking, FAISS-based vector search, and citation-grounded responses
- Built a secure SQL Analyst agent with read-only query validation, controlled execution, and LLM-based result explanations
- Exposed the system through an async FastAPI service and containerized it using Docker

Voice-Based Speaker Identification System

- Built an end-to-end speaker identification pipeline transforming raw audio input into predicted speaker identities
- Implemented MFCC- and spectrogram-based feature extraction for speaker characterization
- Applied audio preprocessing including noise reduction, silence trimming, and normalization

Leadership & Responsibility

Class Representative (2023–2024) — Represented the batch in academic coordination with faculty
Mentor, Institute Mentorship Program — Guided junior students on academics and course planning
Outreach / Sponsorship Head — FinTech Club, Abhivyakt (Literary Club), Malang (Music Club), IIT Jammu
Core Team Member — Pragyan, major educational fest at IIT Jammu

Technical Skills

Languages: JavaScript, Python, C++, SQL
Backend: Node.js, Express, FastAPI
Databases: MongoDB, PostgreSQL
AI/ML: LangGraph, LangChain, FAISS, Signal Processing
Tools: Git, Docker, Linux

Education

Indian Institute of Technology, Jammu　　　　　　　　　　　　　　　　　**Expected 2027**
B.Tech/B.E.　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*JAMMU*