

DESH DEEPAK KANT

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[Linkedin](#) | [Github](#) | [Codeforces](#) | [Leetcode](#)

EDUCATION

Indian Institute of Information Technology, Agartala

B.Tech in Computer Science and Engineering (CGPA: 8.16)

Nov 2022 – June 2026

Agartala, India

EXPERIENCE

Samaveda Capital – AI Software Engineer Intern [↗](#)

Jan 2026 – June 2026

- Architected Samaveda's AI-native **Due Diligence Engine** and **LangGraph/Pipecat** state machines for autonomous founder interviews (<500ms latency), slashing DD cycle times by **90%+** (from 25 days to <24 hours).
- Engineered a deterministic reconciliation engine cross-referencing **200+ financial variables** (GST filings, bank statements, SKU metrics) to compute automated **Trust Scores**, reducing logic hallucinations to <1%.
- Designed an enterprise **Knowledge Graph (Neo4j)** mapping **400+ deal variables**, integrating **Supabase PostgreSQL** and semantic vector search across **170+ PE/VC funds** on **GCP/AWS (99.9% uptime)**.

Linux Foundation Mentorship – CNCF (TUF Metadata Visualizer) [↗](#)

March 2025 – May 2025

- Engineered **TUF Metadata Visualizer** in **Next.js/TS**, integrating **@tufjs/models** for cryptographic schema deserialization across **Sigstore TUF CDN** to validate key IDs and signature thresholds.
- Architected a **dynamic delegation resolver** and interactive **DAG tree visualizer**, recursively traversing multi-level target delegations, path globs, and **terminating** delegation boundaries.
- Built a **Root Diff engine** to detect metadata drift and unauthorized key rotations across root versions, refactoring to client-side static execution for zero-backend attack surface with **GitHub Actions CI/CD**.

Google Summer of Code – KDE Community [↗](#)

June 2025 – July 2025

- Engineered the official launchpad platform for **KDE Linux (Project Banana)** using **Hugo, SCSS**, and modern **JavaScript**, implementing accessible dark/light modes and multi-language i18n support.
- Automated build and deployment pipelines via **GitLab CI/CD** to **GitLab Pages**, managing Docker-based Hugo compilation, asset bundling, and automated branch verification checks.

Kickoff – Software Developer Intern [↗](#)

July 2024 – Dec 2024

- Architected a production dashboard in **React/TypeScript/Tailwind** and distributed async pipelines using **FastAPI** and **Celery**, integrating **Gong/Salesforce APIs** to synchronize CRM entities in real time.
- Optimized **PostgreSQL** query latency via composite **B-tree indexes** and profiling with **Sentry**, while automating multi-stage **CI/CD pipelines** on **DigitalOcean** backed by **Pytest, Vitest**, and **RTL**.

ACHIEVEMENTS

- **Coding Profiles:** Specialist on **Codeforces (1481)**, 3* on **CodeChef (1637)**, and **1600+** on **LeetCode**.
- **Hackathons:** **Winner** – ISRO Space Hackathon; **Runner Up** – Ethos Hackathon (IITG 2024).

PROJECTS

AI Interviewer (Hiring Intelligence Platform) | *FastAPI, LangGraph, MongoDB, Redis, WebSockets* [Link](#) | [Code](#)

- Architected an adaptive interview state machine via **LangGraph StateGraph**, parsing candidate resumes to drive contextual drill-downs, **Pydantic** schema validation, and multi-turn technical assessments.
- Engineered ASGI streaming backend using **FastAPI, python-socketio**, and **Redis** session caching, sustaining full-duplex WebSocket connections with <**150ms** round-trip state sync and neural voice synthesis.
- Implemented multi-tenant **RBAC** with **OAuth 2.0** and **JWT**, isolating candidate employer campaigns.

Medha (Cognitive Learning) | *FastAPI, Voice Agents, Sarvam AI, Supabase, Postgres*

[Link](#)

- Engineered **FastAPI** semantic chunking pipeline extracting items (**MCQ, True/False, PYQ**).
- Architected companion UI syncing **YouTube IFrame** state with non-blocking evaluation triggers.
- Integrated **Voice Agents** via **Sarvam AI STT/TTS** and multi-role **RBAC** with **Supabase RLS** policies.

TECHNICAL SKILLS

Languages & Frameworks: Python, C++, JavaScript, SQL, FastAPI, Next.js, React, REST APIs, WebSockets

AI, Agents & Knowledge Graphs: LangGraph, LangChain, AI/Voice Agents, RAG, Neo4j, ChromaDB, Vector Search

Databases & Core CS: PostgreSQL, MongoDB, Redis, Supabase, CI/CD, System Design (LLD/HLD), OS, Networking