

MANAV CHOUDHARY

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EDUCATION

Kalinga Institute of Industrial Technology

Bachelor of Technology, Computer Science & Engineering {CGPA: 8.5/10}

Expected 2027

Bhubaneswar, India

Birla Institute of Technology & Science, Pilani

Bachelor of Science, Computer Science {CGPA: 8.75/10}

Expected 2027

Pilani, India

Relevant Coursework: Data Structures & Algorithms, DBMS, Object-Oriented Programming, Operating Systems, Computer Networks. **No active backlogs.**

SKILLS

Languages: TypeScript, JavaScript, Python, C++, SQL

Frontend: React 19, Next.js 15 (App Router), React Server Components, Tailwind CSS, Radix UI

Backend & Data: FastAPI, Node.js, Fastify, REST APIs, PostgreSQL, Drizzle ORM, SQLAlchemy, Redis

AI & Prompt Engineering: Prompt engineering, LangGraph, RAG, Pinecone vector search, Google Gemini, Claude, GPT-4o

Cloud & Tooling: AWS (S3, EC2, IAM, ECS), Docker, GitHub Actions CI/CD, Git, Linux, Vitest, Playwright, pytest

EXPERIENCE

Software Engineering Intern

Internal Quality Assurance Cell, KIIT University

August 2025 - Present

Bhubaneswar, India

- Standardized contribution data across 30 schools and 3,000+ faculty into one validated dataset backing KIIT's Times Higher Education, QS World University Rankings, and NAAC/NBA submissions.
- Consolidated the Centre for Partnership & Outreach's guest, partnership, MoU, and contact records from disconnected Excel sheets into one queryable database now used as ranking and accreditation evidence.

PROJECTS

IQAC Portal - Production University Portal — Next.js 15, React, TypeScript, PostgreSQL, NextAuth.js

[View](#)

- Shipped the official IQAC portal as the university's single system of record for ~8,000 active users at 100–200 concurrent, retiring the Excel-based tracking it replaced.
- Delivered a role-based admin panel over 5–8 document types with rich-text editing, cutting routine content and record updates from a developer request to a self-service action for non-technical staff.

Kortex - AI Classification & Reporting Platform — FastAPI, Python, PostgreSQL, Gemini, Pinecone, Next.js

[View](#)

- Architected a deployed platform classifying institutional records against 17 UN SDGs and 7 Viksit Bharat pillars in ~2–3 seconds per entry, producing THE/QS sustainability reports the university previously had no capability to generate.
- Built a human-in-the-loop review layer - per-entry confidence scoring with reviewer override, 3-role RBAC, a 3-state approval workflow - letting 50–150 contributors submit in bulk by CSV while 5–10 reviewers keep final say on every AI decision.

voksa - Conversational Ordering Assistant (*in development*) — Node.js, TypeScript, Fastify, Gemini, Redis, BullMQ

- Building a WhatsApp-native agent that resolves free-text requests in English, Hindi, and Hinglish into placed orders across 6 tools in a multi-turn reasoning loop, designed to a <8s p95 latency target.
- Engineered safety and cost controls ahead of live traffic: a scope-guard classifier rejecting ~15–20% of requests before any model call, a 60-second deduplication window against double-orders, and a stateless cart rehydrated each turn that removes stale-state failures by design.

LEADERSHIP & COMMUNICATION

- Cybersecurity Lead, Google Developer Groups on Campus, KIIT:** Founded GDG SecLabs, a 5-masterclass series taking 300+ attendees from Linux fundamentals to the OWASP Top 10.
- IEEE AESPC 2025 (published):** CatBoost QSAR model identifying phytochemical inhibitors of the *P. aeruginosa* LasR regulator, validated against molecular docking. [Read](#)
- Mentoring:** Mentored 8 research trainees and the 5 selected from 80+ applicants to the IQAC Summer Training Programme.
- Event Operations:** Sole student organizer for the 61st Femina Miss India at KIIT - coordinated 30 contestants and 500+ guests.

INTERESTS

Drums - Trinity College London Grade 7 (10 years); band-competition wins incl. IIT Kharagpur Spring Fest. Certified **Tabla** (Madhyam).