

Dev Jhawar

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EDUCATION

Kalinga Institute of Industrial Technology
Bachelor of Technology in Computer Science – CGPA 9.65

Bhubaneswar
Aug. 2023 – Present

EXPERIENCE

Open Source Contributor

Oct 2026 – Present

AI agent and retrieval infrastructure

Remote

- **7 merged PRs in 5 AI projects:** ByteDance **DeerFlow** (agent framework), **LiveKit Agents** and **Pipecat** (voice agents), **txtai** (vector search), **Docling** (document parsing).
- **Voice agents:** bounded Pipecat's websocket sends so a stalled peer can't block it; fixed a LiveKit STT delay.
- **Vector search:** swapped full sorts for **top-k selection** in txtai's NumPy/PyTorch ANN search.

IOT LAB, Technical Community Team

Nov 2024 – Dec 2025

KIIT University

Bhubaneswar

- Handled **sponsorship outreach** and **community engagement** for technical events across campus.

PROJECTS

PolicyLens – RAG Policy Analyzer [Live Demo](#) | Python, FastAPI, Supabase, pgvector, Docker Jan 2026

- Built a **RAG pipeline** that answers questions about insurance policy PDFs with **context-grounded answers** citing the exact page and clause; ingestion uses clause-aware chunking and **Jina embeddings** in **Supabase pgvector**, run by a background worker on a Postgres job queue.
- Improved retrieval with **hybrid search** (vector + **BM25**, merged via reciprocal-rank fusion) and a **Jina reranker**; added **multi-policy comparison** across 2–5 policies with streamed **Groq** answers.
- Developed **FastAPI** endpoints for ingestion, query and streaming; containerised with **Docker** and deployed on **Render** with **GitHub Actions** CI.

GridMind – Agentic Research Sheet [Live Demo](#) | Python, FastAPI, LangGraph, Redis Oct 2026

- Built a spreadsheet where **each cell runs its own LangGraph agent** that plans queries, searches the web, reads pages when snippets are thin and returns a **structured, cited answer**, looping back with what was missing.
- Built a **Postgres job queue** with **SKIP LOCKED** claims, stale-lock reclaim and retries for **stateless workers**.
- Streamed agent traces over **SSE** via **Redis pub/sub**; rate limiters, jittered retries and a TTL cache.

CaseCompass – Consumer-Court Case Finder [Live Demo](#) | Python, FastAPI, Postgres, Groq Oct 2026

- Built a **search system for 600+ Indian consumer-court judgments**: users describe a dispute in plain words and see how similar cases were decided, with outcome, refund amount and a link to the judgment.
- Used an **LLM to extract case outcomes** into validated JSON, with code rules patching its weak spots; stats like “7 of 10 cases” are **computed in code**, so the LLM never invents numbers.
- Improved search with **query rewriting** into legal-style queries and **late chunking**, validated on 27 test stories; built a **FastAPI** backend with rate limits, a daily token budget and fallbacks, **Dockerised** on **Render**.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL

Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, FastAPI, LangChain, Pandas, NumPy, LangGraph, Optuna, FastMCP

Dev Tools & Databases: Git, Docker, Redis, PostgreSQL, AWS, Google Colab, VS Code, MCP Server, Supabase

Core Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems (OS), Low-Level System Design (LLD), Computer Networks(CN)

ACHIEVEMENTS

- **Open Source:** **7 merged PRs** in DeerFlow (**84k ★**), Pipecat (**17k ★**), LiveKit (**15k ★**), txtai (**13k ★**) and Docling (PRs).
- **LeetCode:** Solved 1000+ DSA problems; Max Rating of **1750** ([Profile](#)).
- **CodeChef:** **3 Star**, Max **1625** ([Profile](#)) | **Codeforces:** **Pupil**, Max **1250** ([Profile](#)).