

NAKSHATRA JOSHI

+91 7008350087 | connect.nakshjoshi@gmail.com | linkedin.com/in/nakshjoshi | github.com/nakshjoshi

Education

Rajiv Gandhi Institute of Petroleum Technology
B.Tech. in Computer Science & Design Engineering

Aug. 2023 – Present
Jais, Uttar Pradesh

Experience

Prodigal AI — ⚡

Jun. 2025 – Aug. 2025

AI Developer Intern

- Engineered scalable **GenAI/ML backend architectures** with human-in-the-loop workflows and deployed **3+ production-grade pipelines** using **Docker, FastAPI, and AWS**, improving system throughput by **10%**.
- Implemented **MLOps/AIOps** lifecycle automation with **Airflow** and **MLflow/DagsHub**, and built real-time, event-driven data streaming using **Apache Kafka**, reducing development iteration time by **15%**.
- Collaborated in an **Agile/Scrum** environment to define requirements, manage sprint tasks, and deliver features with strong attention to detail, demonstrating **teamwork, ownership, and clear technical communication**.

Tata Steel Ltd. — ⚡

Jul. 2024 – Jul. 2024

Vocational Trainee and Intern, Data Visualisation Dept.

- Developed and deployed 3+ interactive Tableau dashboards, studied Google Cloud Platform and SAP-BODS pipelines which can lead to 25% faster reporting turnaround for sales data analysis across 1+ departments.

Projects

Brain Cache | *React, TypeScript, Node.js, Express.js, MongoDB, JWT, OpenAI API, Render*

Github | Link

- Architected and deployed a **React + Vite SPA** with **responsive HTML/CSS** and modular components, ensuring maintainable UI structure and rapid development iteration.
- Implemented intelligent **caching and data pre-fetching** with proper CORS and environment config, improving responsiveness and reducing perceived latency across frontend-backend interactions.

GitLab Beacon | *Python, LangChain, SentenceTransformers, FAISS, Git LFS, Streamlit, Gemini API*

Github | Link

- Developed an AI chatbot for natural-language access to GitLab's documentation, leveraging LangChain, Gemini 2.5 Flash, and FAISS; rigorously tested with 15+ varied prompts (factual, contextual, follow-up, off-topic) to ensure high accuracy, contextual understanding, and ethical guardrails.
- Engineered and deployed a scalable RAG pipeline (750-token chunks, 150-token overlap) with MMR-based retrieval and metadata-rich chunking, improving contextual relevance by 40%+ and ensuring transparent, source-cited responses in a clean Streamlit UI.

Bilingual AI Chatbot | *Python (Backend & LLM), Streamlit, ChromaDB, Selenium, Deep Translator.*

Github | Link

- Designed and deployed a bilingual **CRAG-based retrieval system** using **ChromaDB, SentenceTransformers, and Gemini 2.0 Flash**, achieving **85%+ accurate query responses** across **3300+ Indian schemes**.
- Engineered a **hybrid chunking** and **context-aware retrieval** pipeline with metadata-enriched document segmentation and smart Top-2 + sibling retrieval logic, enabling **30K+ optimized chunks** with reduced token overhead.

StrumHub | *React, TypeScript, Vite, Tailwind CSS, Web Audio API, HTML/CSS*

Github(Check Commits) | Link

- Developed an interactive **React + TypeScript** learning platform integrating **Google Gemini** for AI-assisted guidance and **Web Audio API** for real-time pitch detection.
- Achieved ±10 cent tuning accuracy with real-time audio processing, and built a **responsive, accessible UI** using Tailwind CSS and Radix UI.

Technical Skills

Programming Languages: Python, Java, C++, JavaScript, SQL, Bash, HTML/CSS

Frameworks, Libraries & Technologies: pandas, NumPy, React.js, Node.js, Express.js, Linux, Kafka, Apache Airflow, MLflow, System Design, AI Automation, AI Workflows/Pipelines

Developer Tools & Platforms: AWS, Digital Ocean, Docker, Git/GitHub (Version Control), Jupyter Notebook, RESTful APIs, Tableau, LLM Integration

Achievements and Positions of Responsibility

Training and Placement Student Coordinator

2024 - Present

Part of the Career Development Cell under TnP, RGIFT for Placement and Internships Coordination.

Finalists and Internship Offer

2025

Finalist(from 250+ Teams), KodeKurrent Hackathon 2025; converted to paid internship(from 40+ People).