

# NAKSHATRA JOSHI

☎ +91 7008350087 ✉ [connect.nakshjoshi@gmail.com](mailto:connect.nakshjoshi@gmail.com) 🔗 [linkedin.com/in/nakshjoshi](https://www.linkedin.com/in/nakshjoshi) 🐙 [github.com/nakshjoshi](https://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  $\pm 10$  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, RGIPT for Placement and Internships Coordination.*

**Finalists and Internship Offer**

**2025**

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