DARSHIKA SAXENA

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EDUCATION

Indian Institute of Information Technology Nagpur   June 2022 – June 2026
Bachelor of Technology – Computer Science

TECHNICAL SKILLS

Languages: Python, C++, C, JavaScript, SQL/NoSQL, HTML, CSS
Frameworks: Next.js, ReactJS, Express.js, Hugging Face, NumPy, Tableau, PostgreSQL, MongoDB, SQLite
Tools: Git, MySQL, RESTful APIs, MATLAB, LaTeX
Platforms: Linux, Windows, Machine Learning, Object Oriented Programming

EXPERIENCE

Pratinik Infotech Pvt. Limited   Nov 2024 – Feb 2025
Full Stack Developer Intern   *Remote*

- Architected a **CNN model** for defect detection using **VGG16 and ResNet50** for metal casting analysis.
- Reduced model convergence time by 15% by integrating **SGD and Adam optimizers**, accelerating training cycles and boosting overall model performance.
- Improved model accuracy by 20% via data **augmentation techniques** that addressed class imbalance.

Echoes   Jan 2024 – June 2024
Software Engineer Intern   *Remote*

- Led web development of two Next.js applications which are **Reverb** (live music social-dating) and **Cirkle** (digital card POS dashboard) deployed to **Vercel** and **Railway**.
- For **Reverb**, built anonymous chat, event-based matching, and push notifications using **WebSockets** and **Firebase Cloud Messaging**, supporting over **100+ user flows**.
- For **Cirkle**, implemented card issuance UI, balance lookup, top-up workflows, refunds, and a POS-style ordering interface with structured component architecture.
- Tech stack: **React.js, Next.js, TypeScript, Firebase Auth, Firestore, REST APIs, GitHub**.

PROJECTS

Code Review Analyzer ⭘ | Python | AST Parsing | Mermaid Diagrams | FastAPI | React.js

- Developed a full-stack platform to upload and analyze Python code via **AST parsing**, generating **Mermaid diagrams** and reducing manual code review time by **40%**.
- Integrated **GPT-4** to enable natural language Q&A over parsed code, improving comprehension and debugging experience.
- Engineered the backend with **FastAPI** and the frontend with **React.js**, delivering real-time feedback with ¡1s latency and improving user task completion speed by **30%**.

Inquire PDF ⭘ | React.js | FastAPI | Hugging Face | FAISS | SQLite

- Built a full-stack PDF Q&A platform with **React.js**, **FastAPI**, and a fine-tuned **T5 LLM**, delivering real-time (¡1s) responses and handling **1,000+** concurrent queries via SQLite and Uvicorn.
- Constructed semantic search using **FAISS** and sentence embeddings, achieving **35%** faster retrieval across large documents and establishing real-time error tracking for robust performance.

POSITION OF RESPONSIBILITY

Joint Secretary at Strokes Design Club IIIT Nagpur   Sep 2023 – Oct 2024

- Spearheaded Nagpur's first women-centric hackathon with **100+ participants** from **10+ institutes**, handling outreach, logistics, and event operations.

WomenInDev Hackathon Lead - Tantrafiesta   Sep 2024 – Oct 2024

- Spearheaded Nagpur's first women-centric hackathon with **100+ participants** from **10+ institutes**, handling outreach, logistics, and event operations.