Avin Saxena

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EDUCATION

- **Indian Institute of Information Technology Vadodara ICD**   **Jul 2021 – Jul 2025**
  Bachelor of Technology – Computer Science
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

SKILLS SUMMARY

- **Languages**   Python, C++, C, Javascript, SQL/NoSQL, HTML, CSS.
- **Frameworks**   Next.js, ReactJS, Angular.js, 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

- **Full Stack Developer**   **Nov 2024 – Present**
  TunableLabs LLC, USA   *Remote*
  - **Implemented multi-agent contract automation** by building an **agentic workflow** for contract drafting, review, and regeneration, enabling real-time legal automation and validating PoC for **production**.
  - **Developed and deployed LLM observability platform (TuneTrace)** by instrumenting vector operations and **LLM** cost tracking with **OpenTelemetry**, integrating real-time dashboards, and provisioning scalable infrastructure on **Railway**, improving traceability and debugging efficiency by 40%.
  - **Engineered Legal-AI RAG pipeline** automated legal doc ingestion via **S3**, parsed with **LlamaParse** and **Unstructured**, embedded with **OpenAI**, indexed in **Weaviate**, and stored metadata in **Supabase/PostgreSQL** for scalable retrieval.
  - **Built collaborative document editor** with **Next.js** and **Quill.js**, featuring **PDF-to-HTML** conversion, inline editing, version control, and redline comparison; enabled real-time legal collaboration and reduced contract review time by 35%.

- **Software Engineer Intern**   **Jun 2024 – Aug 2024**
  Pratinik Infotech Pvt. Limited   *India*
  - **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.

- **Web Developer Intern**   **Jun 2023 – Dec 2023**
  IndusFly   *India*
  - **Designed full-stack flight reservation system** by developing the backend with **Express.js** and frontend with **React.js**, improving data throughput by 30% and automating PDF invoice generation.
  - **Secured user authentication** with **JWT**, reducing unauthorized access by 25% and strengthening overall system security.

PROJECTS

- **CodeInsight AI (Next.js, FastAPI, Mermaid, AST)**
  GitHub Link
  - 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 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)**
  GitHub Link
  - 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 1000+ 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.

CERTIFICATIONS

- **Certifications: Complete Web Development Bootcamp** (Full-stack: HTML, CSS, JavaScript, React, Node.js, Express.js) and **C++ Programming** (OOP, data structures, algorithms, and dynamic programming).

POSITION OF RESPONSIBILITY

- **Joint Secretary at Vector Design Club IIIT Vadodara ICD**
  Led a team of 40 members to organize cultural events, increasing participation by 30% and boosting club visibility.