

SIMRAN

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PROFESSIONAL SUMMARY

Full Stack & AI/ML Developer with hands-on experience shipping production-ready features. Built and deployed 3+ full-stack apps. Led teams to top finishes in 5+ hackathons. 350+ LeetCode problems solved (C++).

EDUCATION

Course/Examination	Board	Institute	Performance	Year
B.Tech (CSE)	IP University	Dr. ADGIPS	9.55 (3 rd Sem)	2024-28
Class 12 th	DBSE	School Of Specialised Excellence	85.4%	2024
Class 10 th	CBSE	Rajkiya Pratibha Vikas Vidyalaya	93.8%	2022
● Rank 3 Nationwide in Mathematics (98/100) in Class X Standard				(2022)

EXPERIENCE

AI & Data Analytics InternAICTE, Shell India & Edunet Foundation (2025)

- Completed a 4-week project-based internship applying **AI and data analytics** to sustainability and green skills.
- Designed a prototype under industry **mentorship**, gaining **exposure** to data-driven problem-solving and real-world **AI applications**.

AI & Full Stack InternDefence Research & Development Organisation (DRDO), New Delhi | Sep 2026 – Present

- Enhanced UI/UX of existing internal web applications, modernizing frontend components and improving operational user workflows.
- Integrated Ollama with Qwen LLMs to build an AI-powered questionnaire-generation feature, enabling dynamic form creation from natural-language prompts for internal stakeholders.

Intern at AI & Tech DepartmentDelhi University Students Union (DUSU) Cell, New Delhi | Jul 2026 – Aug 2026

- Contributing to frontend development and UI/UX interface changes for the official DUSU website using MERN.
- Implementing MongoDB Atlas database changes and schema updates to support production features.

OPEN SOURCE CONTRIBUTIONS

GirlScript Summer Code of Open Contribution’26 (GSSOC)

- Ranked in the Top 70 out of 45,000+ participants in GSSoC'26.
- Successfully merged 100+ pull requests across 8 diverse repositories, demonstrating active collaboration and codebase maintenance.

PROJECTS

DocPulse IntelligenceTechnologies Used: Next.js, FastAPI, RAG, Groq LLM, ChromaDB

- Built an **agentic RAG system** processing 5+ document types (PDFs, handwriting, tables) with a hybrid OCR pipeline, achieving **95% extraction accuracy** and zero hallucinations via citation-grounded responses.
- Engineered an **LLM classifier (Llama 3)** evaluating document type, sensitivity, and topics in < 1.5s, handling 100+ requests with automatic empty-result fallback.
- Implemented **4-layer security** (upload validation, AES-256 encryption, sanitized processing, API rate limiting) with documented threat model and trade-offs.

ExplainLikeMyTeacher [video](#)Technologies Used: React Native, Expo, PostgreSQL, Hugging Face, Whisper AI

- Built an **AI-native cross-platform learning app** that extracts a teacher’s pedagogical style from lecture recordings via Whisper STT → Hugging Face LLMs (Qwen, Llama) → voice-cloned TTS, enabling contextual Q&A in the teacher’s voice.
- Architected an end-to-end pipeline with **OCR document extraction**, offline caching, audio compression, and an accessible UI (voice input, real-time captions) — deployed via Expo for low-bandwidth environments.
- Led **frontend development and AI integration**, bridging incompatible APIs via Gradio and optimizing for real-world constraints: noisy audio, network drops, and long-form lecture processing.

macOS-style Portfolio [link](#)Technologies Used: React 19, Vite, Tailwind CSS, Zustand, GSAP, react-pdf, Immer, Lucide-React

- Architected a browser-based desktop OS with **draggable windows**, dynamic z-index focus management, and a full window lifecycle (open/close/minimise) using **GSAP, Zustand, and Immer** for efficient state orchestration across 8+ applications.
- Integrated **react-pdf** with an optimized worker for seamless in-app resume viewing and built a responsive image gallery featuring dynamic sizing and tab-based navigation.
- Engineered performance and SEO enhancements, achieving a **97 Performance and 100 SEO score** on Google Lighthouse by implementing deferred rendering, Open Graph integration, and asset optimization.

TECHNICAL SKILLS

- **Frontend:** React, React Native, HTML5, CSS3, Tailwind CSS, GSAP, Accessibility (WCAG)
- **Backend:** Node.js, Express.js, RESTful APIs, JWT Authentication, EJS
- **Databases:** MongoDB, PostgreSQL, MySQL, Supabase
- **AI/ML & Tools:** Python, NumPy, Pandas, Matplotlib, OpenAI API, Hugging Face, Tesseract OCR, TTS
- **DevOps/Tools:** Git, GitHub, GitHub Actions (CI/CD), Postman, Expo
- **Testing:** Jest (basic), React Testing Library, Postman Collection
- **DSA & Design:** C++ (350+ LeetCode), Python, OOP, DBMS, System Design basics

HACKATHONS & COMPETITIONS

HackCBS 8.0(MLH India's Largest Student-Run)	● Onsite Finalist - Built <i>Katalyst</i> , an AI-powered codebase intelligence system
HackMAIT 6.0	● Team Lead -Top 30/200+ teams, Pitched <i>MediTrack</i> , a digital health records platform
Web-a-thon, Keshav Mahavidyalaya, DU	● Frontend Lead - 3rd Place; Built pet adoption site under a 2-hour deadline
HT Code-a-thon	● Top 100 Nationwide - Featured in Hindustan Times

ACHIEVEMENTS & CERTIFICATIONS

Scholarships & Programs	• Awarded SheCodes Scholar '25 by Delac Foundation. • SheFi Scholar, Season 14 (2025) • Aspire Leaders Program Cohort 4, By Harvard University (2025) • SheLeads Campus Ambassador, DS Brar Centre for Girls & Women in STEM (2025) • Recipient of the Lal Bahadur Shastri Scholarship thrice (2021)
Leadership & Recognition	• Selected among Top 10 Delhi Students - Interacted with Manish Sisodia, then Deputy CM & Education Minister. • Content Intern at Viksit Prayas Foundation (Affiliated with NITI AAYOG) • Model United Nations - Received Special Mention for representing the AIPPM committee.
Certifications	• Certified in Data Science & Analytics (HP LIFE, 2025) • Certified in Introduction to Deep Learning, Natural Language Processing & AI (Infosys Springboard, 2025) • Certified in Internet of Things (E&ICT Academy, IIT Kanpur, 2025) • Web Development - GE Aerospace • Group Discussion Competition - Ranked 3rd in “Mind Exchange: Speed to Succeed.”(2024)
ExtraCurriculars	• Awaaz - Official cultural society, DADGIPS • Attended workshops: <i>GenAI: Supercharging LLMs with Neo4j and VertexAI</i> (Google for Developers), <i>Build with SnapAR</i> (BharatXR), <i>Web3 Pe Charcha</i> (Microsoft Gurgaon).
Roles & Responsibilities	• The Discurso Masters: Served as Public Speaking Head for the official public speaking society of ADGIPS, directing public speaking initiatives and events. • Spark Tech AI Hub: Acted as Lead Anchor for a prominent Delhi-based tech community, successfully hosting technical events and hackathons while managing crowd engagement and event flow.