# SPARSH SHARMA

**Software Developer & Computer Science Student | Full-Stack Web, Mobile & Applied AI**

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## PROFESSIONAL SUMMARY

Computer Science & Engineering undergraduate and versatile Software Developer building production web, mobile, and applied AI software with React, React Native, Next.js, TypeScript, Node.js, and PyTorch. Experienced in end-to-end engineering—from responsive interfaces, REST/WebSocket APIs, and offline-first data persistence to multi-LLM routing ecosystems—alongside leading engineering teams and developer communities.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3

**Frontend & Mobile:** React, Next.js, React Native, Expo, Vite, Tailwind CSS, HTML5 Canvas, Responsive UI/UX

**Backend & Databases:** Node.js, Express.js, REST APIs, Socket.io (WebSockets), Serverless, Firebase, Supabase, PostgreSQL, MongoDB, Prisma, IndexedDB

**Applied AI & ML:** PyTorch, Transformer Architecture (RNNs, Self-Attention, Causal Masking), Multi-LLM Routing, Prompt Architecture, Groq, Gemini & Mistral APIs

**Tools & Concepts:** Git, GitHub, Vercel, Offline-First Architecture, CRDT Concepts, Client-Side Analytics, Authentication & UPI Payments

## EXPERIENCE & LEADERSHIP

**Founder & Lead Developer** — Manshverse (Web & Android AI Platform) Mar 2026 – Present

- Architected and shipped a cross-platform multi-model AI chat product across web (React, Vite) and Android (React Native, Expo) featuring persona-driven conversations, history sync, and a custom prompt composer.
- Engineered a semantic prompt-intent router integrating Groq, Google Gemini, and Mistral APIs to dynamically select optimal LLMs based on query context.
- Built end-to-end production infrastructure including authentication, Firebase/Supabase data flows, UPI subscription workflows, an admin dashboard, and an Android APK release.

**Co-Lead, Bengaluru Fork** — bits&bytes (Student Developer Community) May 2026 – Present

- Co-lead the Bengaluru chapter of a youth-led builder network, organizing offline hackathons, technical build nights, and collaborative sprint sessions across the city.
- Develop and maintain the Bengaluru chapter community web portal using TypeScript and modern frontend tooling.

**Team Lead** — Smart India Hackathon 2026 (Project Polaris) Sep 2026

- Led a 6-member React engineering team to build Polaris, an offline-first expedition and supply operations prototype for polar research stations using simulated station telemetry.
- Owned interface architecture, local-first data storage with IndexedDB and CRDT concepts, and operational planning workflows resilient to zero-connectivity environments.

**Independent AI Researcher** — Self-Directed Deep Learning Research Nov 2024 – Present

- Implemented foundational deep learning architectures from scratch in PyTorch, progressing from Recurrent Neural Networks (RNNs) to full Transformer models (tokenization, embeddings, self-attention, and causal masking).

## SELECTED PROJECTS

**LoreSync** | *TypeScript, React, Next.js, IndexedDB, Supabase* Open Source

- Built a privacy-first conversation intelligence dashboard that parses WhatsApp text and Discord JSON exports locally in the browser to visualize activity trends, participants, and milestones, with optional cloud storage.

**Conduit** | *React Native, TypeScript, Node.js, Express, Socket.io, Prisma* Mobile App

- Developed a real-time mobile messaging app featuring low-latency WebSocket updates via Socket.io, RESTful Node.js/Express APIs, and structured relational persistence through Prisma ORM.

**Lexivoid** | *JavaScript, Node.js, Mistral API, Vercel* Applied AI

- Created an AI-powered lexical discovery web app that interprets natural-language descriptions of complex feelings or concepts via the Mistral API to surface matching English vocabulary.

**Client Web Delivery: RASHMÉ & Durga Agency** | *React, JS, Tailwind CSS, HTML5 Canvas* Freelance

- Shipped commercial websites including RASHMÉ (hair-care brand storytelling, ingredient guide, and care rituals) and Durga Agency (responsive showcase with interactive HTML5 Canvas motion).

## EDUCATION

**Bachelor of Technology (B.Tech) in Computer Science & Engineering** Pursuing

Samrat Ashok Rajkiya Engineering College (SAREC), Mirzapur (Affiliated to Dr. A.P.J. Abdul Kalam Technical University, AKTU)

## TECHNICAL WRITING & ENGINEERING NOTES

- **Learning How Transformers Work with PyTorch** (Jul 2026) — Study note detailing tokenization, embeddings, self-attention, and causal masking implemented in PyTorch.
- **Connecting AI Models in Manshverse** (Jul 2026) — Build note on multi-provider LLM routing (Groq, Gemini, Mistral) and shipping unified chat across web and Android.