

SUDARSHAN DANDGAWAL

Pune, Maharashtra

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EDUCATION

SKN Sinhgad Institute of Technology and Sciences

B.E. in Computer Science (AI/ML Honors) | **SGPA: 7.34**

Aug 2023 – Present

Pune, India

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, C++

Frontend: React.js (Hooks, Redux), Next.js, HTML5, CSS3, Tailwind CSS

Backend & Databases: Node.js, Express.js, MongoDB (Atlas, Vector Search), PostgreSQL, Convex DB, Firebase

AI/ML & Semantic Search: LLM Integration (Gemini, Hugging Face APIs), Vercel AI SDK, RAG Pipelines, AST-based Parsing (web-tree-sitter)

Core CS Fundamentals: Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Database Management Systems (DBMS), Computer Networks, Operating Systems

Tools & DevOps: Git, GitHub, Docker, Postman, VS Code, RESTful APIs, SSE/Streaming

PROJECTS

Codebase Whisperer – AI Repo Q&A SaaS | Next.js, MongoDB Atlas, web-tree-sitter

Jul 2026

- Built a full-stack SaaS that lets users paste any public GitHub URL and chat with its architecture via semantic code search and LLM.
- Engineered an **AST-based chunking pipeline** using **web-tree-sitter (WASM)** to split code along function/class boundaries instead of naive text splitting, preserving semantic context for retrieval.
- Diagnosed and fixed a chunking coverage gap where function-expression-style code common across real-world JS/Node codebases was bypassing AST extraction entirely, closing a silent gap in retrieval coverage.
- Implemented semantic retrieval with **MongoDB Atlas \$vectorSearch** and a **dual-provider LLM router** (Hugging Face primary, Gemini fallback) for resilience against individual provider rate limits.
- Shipped zero-signup guest access and **SSE-based streaming** (Vercel AI SDK) for real-time ingestion and response feedback. **Live Demo:** codebase-whisperer.vercel.app

EatHigh – Nutritional Web App | React, Tailwind, Node.js

Oct 2025

- Integrated a barcode-scanning utility with a Node.js backend to achieve **<500ms** nutritional data retrieval for the React frontend.
- Engineered a custom health scoring algorithm processing 15+ data points (macros, proteins) into a standardized 1-10 health grade.
- Built a Vite + React pre-rendered architecture achieving **99/100** Desktop and **93/100** Mobile scores on Google PageSpeed Insights.
- Eliminated hydration bottlenecks to deliver **0ms Total Blocking Time (TBT)** and a sub-second **0.7s Largest Contentful Paint (LCP)** on desktop. **Live Demo:** eathigh.vercel.app

EXPERIENCE

Amdox Technologies

Jan 2026 – Apr 2026

Full Stack Web Developer Intern

Pune, India

- Developed a full-stack Job Listing Portal using the MERN stack (MongoDB, Express.js, React.js, Node.js), covering both frontend and backend development.
- Developed an automated Certificate Verification System, eliminating manual credential checks and **reducing processing time by 40%**, by implementing RESTful APIs and secure database schemas.

Vareli Technac Pvt. Ltd.

Jun 2024 – Jul 2024

Web Developer Intern

Remote

- Developed **12+ reusable React components** following modular design principles, improving development speed for production features.
- Redesigned database schemas to improve application stability and reduce reported bugs.

LEADERSHIP & ACHIEVEMENTS

Smart India Hackathon (SIH) – Top 5 Finalist

Dec 2025

Team Lead & Core Developer | Project: VarunNetra

Pune, India

- Secured a Top 5 Nationwide placement out of 10,000+ competing teams, by architecting a Village Water Management Platform within a high-pressure 48-hour sprint.
- Delivered a fully functional prototype under strict time constraints, by coordinating a cross-functional team and building the frontend dashboard using React 19 and TypeScript.
- Enhanced geospatial data visualization for hackathon judges, by integrating Three.js for real-time 3D monitoring of water levels.

Institution's Innovation Council (IIC) – MoE Initiative

Jan 2025 – Present

Board Member (Current) | Vice President (Former)

Pune, India

- Spearheaded entrepreneurship and research activities, ensuring strict alignment with **MoE** mandates.
- Orchestrated innovation challenges and hackathons, boosting participation in platforms like **SIH**.
- Mentored cross-functional teams on product development and collaborated with faculty to evaluate proposals.