

SUSHRUT NISAL

Department of Computer Science and Engineering

Final Year Undergraduate

 Sushrut Nisal
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 SushrutNisal

ACADEMIC QUALIFICATIONS

Year	Degree	Institute/School	CPI
2022–2026	B.Tech , Computer Science and Engineering	Symbiosis Institute of Technology, Pune	7.0/10.0
2021	Class XII, HSC Board	Nashik Presidency Junior College	90.3%
2019	Class X, ICSE Board	Ryan International School, Nashik	87%

TECHNICAL SKILLS

Languages	C/C++, Java, Python, JavaScript, TypeScript, SQL, PL/SQL, HTML5, CSS3, L ^A T _E X
Frameworks/Libraries	React.js, Node.js, Express.js, Tailwind CSS, Framer Motion, React Flow, Markmap.js
Databases/Cloud	MongoDB, PostgreSQL, Supabase, Firebase, Weaviate (Vector Database)
DevOps/Tools	Git, Docker, RESTful APIs, WebSockets, CI/CD Pipelines, Postman
Emerging Technologies	Web3 Fundamentals, Decentralized Application Workflows, AI Integration (OpenAI, Grok)

WORK EXPERIENCE

DNOTE : Software Development Engineer Intern

(Jul 2025 – Aug 2025)

- Architected **Supabase Postgres** schema and **REST APIs** for mind-map CRUD optimized read/write latency via indexing and query tuning.
- Built interactive **React + Markmap.js** SVG mind maps; improved initial render performance and session duration.
- Automated document summarization with **Grok AI LLM** and prompt engineering; reduced manual curation time and enabled daily batch processing.
- Delivered a responsive dashboard using **shadcn/ui** and **Framer Motion** created reusable components and reduced duplicate code.
- Implemented **CI/CD**, linting, and formatting; improved release stability and developer velocity.

PROJECTS

HEALTH FACT FINDER | *Self-Project* Repository

(Feb 2025 – Apr 2025)

- Developed HealthFactFinder, an AI-powered platform to identify and flag medical misinformation on social media platforms.
- Achieved 92% accuracy utilizing a hybrid Convolutional Neural Network and Bidirectional LSTM with Attention mechanism.
- Collected and preprocessed 10,000+ health claims through automated web scraping from Reddit, Twitter, and CDC sources.
- Integrated fact-checking system with SentenceTransformers and Weaviate vector search; decreased review time per claim by 73%; secured authentication with Google OAuth.

STUDYSPARK AI | *Course Project* Repository

(Aug 2024 – Nov 2024)

- Built a full-stack MERN platform featuring AI-driven quiz generator, Node.js/Express API backend, and React.js frontend interface.
- Designed Data Warehouse architecture with ETL pipelines and OLAP cubes to process 1 million+ records and monitor key performance indicators.
- Enhanced query performance by 95% through MongoDB indexing strategies and schema optimization (from 200ms to 15ms average).
- Enabled real-time collaborative study rooms using Socket.IO; successfully supported 120+ concurrent user sessions.

EXPLORE-IT WEBSITE | *Course Project* Repository

(Aug 2024 – Nov 2024)

- Engineered full-stack NGO platform with Content Management System, RESTful API architecture, and responsive React.js user interface.
- Constructed reusable React components including authentication flows, user dashboard, and admin panel with scalable frontend architecture.
- Integrated OpenAI APIs to generate Natural Language Processing-based flashcards for interactive educational content.
- Optimized MongoDB performance through advanced indexing techniques and normalized schema design for efficient query execution.

RELEVANT COURSES

*ongoing/online specialization

Web Development	Database Management Systems	Data Structures and Algorithms
Operating Systems	Computer Networks	Design & Analysis of Algorithms
The Web Developer Bootcamp*	Advanced CSS & Sass*	Mastering Data Structures