

Dipesh Singnurkar

Bachelor of Technology

Computer Science and Engineering

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EDUCATION

• Indian Institute of Information Technology, Nagpur

2022–2026

Bachelor of Technology in Computer Science and Engineering

SKILLS

- **Languages**: C/C++, Python, JavaScript, Typescript, and HTML/CSS.
- **Frameworks**: NextJS, ReactJS, ExpressJS, NodeJS, Tailwindcss, SQL, PostgreSQL, Pandas, NumPy, and Matplotlib, Django, Flask
- **Tools**: Drizzle, Prisma, MongoDB, PineconeDB, SupaBase, OpenAI API and Clerk

EXPERIENCE

• Software Developer Intern — Durvah IT

May 2024 – Jun 2024

Stack: ReactJS, ExpressJS, PostgreSQL, python

- Developed an internal AI-powered meeting summarizer tool that transcribed audio into timestamped text using Hugging Face's **Whisper-large v2** model, storing outputs in organized text files.
- Utilized **FFmpeg** to preprocess audio inputs—handling format conversion, segmentation, and noise reduction—ensuring accurate transcription performance.
- Designed and integrated a **Salesforce-compatible API** to automate the upload of transcribed files and trigger email notifications to designated recipients.

PROJECTS

• Echo: Create Stunning Ads in Seconds. [Github Link](#)

May 2025 – Present

Stack: Next.js, Tailwind CSS, OpenAI API, Google Imagen API, AWS S3

- Built a generative AI-powered web app enabling users to generate and customize ad visuals through a natural language chat interface.
- Integrated OpenAI and Google Imagen-3 APIs to generate and refine high-quality marketing creatives in real time based on user prompts.
- Enabled users to schedule and manage social media posts with cloud image storage on AWS S3, and implemented a sleek, responsive UI with Tailwind CSS.

• Drawloop: Sketch it. Share it. Shape it. [Link](#)

Feb 2025 - Apr-2025

Stack: Next.js, TypeScript, PostgreSQL17, Node.js, Websockets, ShadCN

- Engineered a real-time collaborative drawing application using Next.js and TypeScript, enabling up to 500 concurrent users to create, edit, and share sketches seamlessly within a streamlined interface.
- Implemented WebSocket-based 2-way communication for instant updates, ensuring low-latency synchronization of sketches across all connected clients.
- Architected a lightweight and type-safe data layer using PostgreSQL-17 with Drizzle ORM as the provider, enabling efficient and reliable persistence of user-generated drawings.

• PromptPDF: Interactive PDF chat-assistant using RAG technology [Link](#)

Dec 2024 – Feb 2025

Stack: Next.js, PostgreSQL, OpenAI, AWS S3, PineconeDB, ShadCN

- Developed an AI-powered PDF chatbot platform using Next.js 15, DrizzleORM, and OpenAI, allowing users to interact with PDF content through natural language queries in real time.
- Integrated Retrieval-Augmented Generation (RAG) by embedding PDF content into vector space and querying via PineconeDB, delivering fast and context-aware responses.
- Integrated secure file handling via AWS S3, user authentication through Clerk, built an intuitive chat UI prioritizing accessibility and responsiveness using ShadCN UI components for a polished user experience.

VOLUNTEER EXPERIENCE

* Coordinator of University Coding Club (DotSlash)

- * Led a 20+ member team to organize and execute DotSlash Winter of Code 2024, mentoring 50+ students through regular doubt-solving and project guidance.