

Ajinkya Dharkar

PORTFOLIO

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GitHub | Twitter | LinkedIn

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Madhav Institute of Technology & Science, Gwalior	7.78 (Till 7th Sem)	2022-2026
Senior Secondary	Central Board of Secondary Education	93.2%	2021
Secondary	Central Board of Secondary Education	92.6%	2019

PROJECTS

• MoodMetrics — Crypto Sentiment Engine

Live

Next.js, TypeScript, PostgreSQL, Drizzle ORM, TailwindCSS, AI (Llama 3.1 8B)

- Aggregates crypto sentiment from 5 sources — Reddit, CoinGecko, RSS news, Binance funding rates, and Fear & Greed Index — into a single blended score with configurable weighting.
- Uses Llama 3.1 8B via Nvidia NIM for AI-powered sentiment analysis with custom JSON fallback parsing and pgvector embeddings for semantic search over historical verdicts.
- Built a Reddit scraper with 8 anti-blocking defenses and a Cheerio-based news scraper that replaced a paid ScrapeGraphAI pipeline.

• Rusper

GitHub | Website

Rust, Tauri v2, React, TypeScript, TailwindCSS, WASAPI, Groq API

- Built a native Windows voice dictation companion using Rust, Tauri v2, and WASAPI, streaming 16kHz audio to Groq Whisper Large v3 Turbo for sub-300ms speech-to-text at 200+ WPM.
- Engineered an in-place AI editing system that transforms highlighted text across VS Code, Slack, Word, and Chrome using global hotkeys, natural-language prompts, and precise Win32 input injection.
- Developed App-Aware Context Adaptation using foreground window and process detection to dynamically tailor LLM formatting for IDEs, browsers, terminals, and communication apps.
- Implemented custom phonetic vocabulary, homophone mappings, non-focus-stealing text injection, Push-to-Talk and Review HUD modes, plus real-time dB audio visualization.

• Void UI

GitHub | Website

Next.js 16, React 19, TypeScript, Framer Motion, Tailwind CSS, WebGL, Three.js, Web Audio API

- Architected an open-source dark-first React component ecosystem with 57 interactive components, combining physics-based motion, WebGL rendering, and tactile skeuomorphic interactions for high-friction interfaces.
- Engineered a custom Web Audio API synthesis engine producing real-time mechanical clicks, scroll feedback, tactile snaps, and micro-interactions without external audio assets.
- Built **Roughly**, a hand-drawn annotation system with dynamic Bézier callouts, wobbly underlines, circles, highlights, strikethroughs, and multiline-aware brackets.
- Developed a zero-install Shadcn-compatible CLI registry with normalized component distribution, automatic dependency installation, CORS support, and tree-shaken package delivery via `npm shadcn add`.
- Constructed an interactive Code Studio with live prop controls, responsive component previews, tabbed TypeScript/Tailwind/usage views, and automatic package-manager command generation.
- Integrated Three.js, React Three Fiber, and Cobe for GPU-accelerated 3D canvases, interactive spheres, atmospheric effects, and responsive pointer-driven animations.
- Optimized the platform with Next.js 16 Turbopack, React 19 optimizations, static pre-rendering across 300+ routes, and localized state isolation to minimize unnecessary re-renders.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, C++, SQL, Solidity
- **Frameworks / Libraries:** React, Next.js, Express.js, TailwindCSS, Redux, TanStack Query, Socket.IO, WebSockets, Mongoose, Vite, Shadcn/ui, DaisyUI, MagicUI, AI-SDK
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis
- **Tools / Platforms:** Git, GitHub, VS Code, Cursor, Postman, Vercel
- **Agents:** OpenCode, AntigraVity, Cursor

CERTIFICATIONS

Automate CyberSecurity Tasks with Python	Coursera
Tools of the Trade: Linux and SQL	Coursera
Foundations of CyberSecurity	Coursera
Play it Safe: Manage Security Risks	Coursera
Assets, Threats, and Vulnerabilities	Coursera
Connect and Protect: Networks and Network Security	Coursera
Web Development Cohort	100xdevs

POSITIONS OF RESPONSIBILITY

- **Marketing Head**, Startup-cell, MITS Gwalior

2025 - 2026