

GHANSHYAM KANOJIYA

+91 7517405609

kanojiyaghanshyam92@gmail.com

[linkedin/shyamkano](https://linkedin.com/in/shyamkano)

[github/Shyamkano](https://github.com/Shyamkano)

[Portfolio](#)

Education

University of Mumbai

Bachelor of Science in Computer Science

Jun. 2023 – May 2026

Mumbai, Maharashtra

Projects

Lumen Archive - Multi-Format Blogging Platform | *Next.js, Supabase, Mistral AI, Tiptap*

Visit

- Built AI-powered multi-format publishing platform using Next.js, Supabase, and Tiptap.
- Implemented anonymous posting, version history, trending maps, and AI writing assistant.

Groovli - Premium Music Streaming Platform | *React Native, Expo, Node.js, PostgreSQL, Redis*

Visit

- Built full-stack streaming platform with React Native and custom Node.js APIs serving music workflows.
- Optimized backend using PostgreSQL + Redis caching, achieving sub-0.4s latency.
- Added synced lyrics, background playback, and secure authentication.

Beatus - AI-Driven Wellness & Binaural Audio Platform | *React Native, Expo, Flask, Supabase, Google Fit API*

Visit

- Built wellness app generating personalized binaural beats from physiological signals.
- Developed Cognitive API for mood-state prediction using sensor and EEG-inspired data.
- Integrated smartwatch metrics with analytics dashboard and secure auth.

AI-Based Talking Robot - Multimodal Interactive Assistant | *Raspberry Pi, Linux, Binaural Beats API*

- Integrated personalized binaural beats generation API using text input and psychological data for adaptive audio experiences.
- Added Indian Sign Language recognition model to improve accessibility and user interaction.
- Combined hardware, AI, and assistive communication features into one smart robotic system.
- Designed wave-based display animations to simulate real-time talking responses.

Brief - AI-Powered News Intelligence Platform | *React Native, Expo, TypeScript, APIs*

Visit

- Architected a cross-platform mobile application featuring a **Quad-AI resilient engine** with an automated fallback chain (Groq, Gemini, Mistral) to provide high-speed, multi-source news summarization and bias analysis.
- Developed interactive features including a context-aware **'Chat with News'** interface and a real-time fact-checking system, integrated with bilingual support (English/Hindi) and local persistence for a privacy-first user experience.

Research Publications

EEG-Driven Cognitive State Classification for Personalized Binaural Beat Recommendation

Under Review

- Developed **Cognitive API** implementing recommendation logic for personalized binaural beats.
- Proposed ML framework for cognitive-state prediction using EEG-inspired and physiological signals.
- Built **Beatus mobile application** to apply research through real-time wellness experiences and user metrics.

Indian Sign Language Recognition and Cognitive Optimization Through a Multimodal Robotic System

Under Review

- Proposed an assistive robotic framework integrating Indian Sign Language recognition and adaptive responses.
- Combined computer vision, robotics, and personalized binaural audio for enhanced interaction and cognitive support.
- Focused on accessibility, intelligent communication, and multimodal human-robot interaction.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, SQL

Frontend: React.js, Next.js, React Native, Tailwind CSS

Backend: Node.js, Express.js, Flask, FastAPI, REST APIs

Databases: PostgreSQL, Supabase, MongoDB, MySQL, Redis

AI / ML: Machine Learning, Deep Learning, YOLOv5, OpenCV

CS Fundamentals: Data Structures, Algorithms, OOP, DBMS, Operating Systems

Tools / Platforms: Git, GitHub, Postman, Linux, Raspberry Pi, Vercel, Render, Figma