

Sagar Rajak

[github](#) [sagarportfolio.com](#) [linkedin/sagar-rajak](#) [sagarrajak245@gmail.com](#) [+91-8669101264](#)

EDUCATION

Vivekanand Education Society's Institute of Technology, Chembur, Mumbai <i>Bachelor of Engineering in Artificial Intelligence and Data Science</i>	July 2025
	CGPA: 9.12/10
MHT-CET	Score: 97.25 Percentile
HSC (Maharashtra State Board)	Percentage: 81.54%
SSC (Maharashtra State Board)	Percentage: 88.40%

SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, SQL

Frameworks Libraries: Next.js, Nest.js, MERN-Stack, Flask, Pandas, Scikit-learn, LLM, Rag, Git, GitHub, GitHub Actions, GraphQL, Docker, Jenkins, Redis, CrewAI, Aws(S3,ec2,lambda,Dynamo db), Prometheus, Grafana.

Databases: MongoDB, SQLite, PostgreSQL

EXPERIENCE

Kinzy Club Pvt Ltd (Subsidiary of Redscope Inc.) Backend Engineer	Nov 2024 – Feb 2025
• Built secure, high-traffic JWT-based authentication using interceptors and route protection.	
• Optimized PostgreSQL queries, resolved sequential scans, added indexes, and designed modular schemas.	
• Developed Redis-backed feed system, utilized partial active indexing to reduce DB load.	
• Scheduled distributed tasks using Spring Scheduler + ShedLock and Acquired lock for node;	
• Tested endpoints with Junit, MockMvc and Spring Test.	

AI-Colegion Sr. Technical Officer	Aug 2023 – Present
• Served as a technical officer, collaborating with members on MERN stack projects.	
• Conducted a Flutter workshop for 180+ students, contributing as an instructor.	
• Led a Machine Learning workshop for 100+ students, teaching foundational ML concepts.	
• Conducted a Agentic Ai workshop for 80+ students with my team, taught fundamentals of Agentic AI concept also taught them Crew-Ai framework for agent orchestration.	
• Conducted an OpenCV workshop with my colleagues for approximately 180+ students.	

PROJECTS

Postify – AI-Powered Chrome Extension React, TypeScript, Tailwind CSS, GPT-4/Grok/Gemini, Gmail API	Github
• Developed a productivity-focused Chrome Extension that automates certificate scanning from Gmail using Gmail API and Google OAuth2.	
• Parsed course metadata and generated compelling LinkedIn and Twitter posts using GPT-4, Grok, and Gemini.	
• Implemented smart scheduling and one-click sharing for seamless certificate-to-social media pipeline.	
• Integrated Gmail, LinkedIn, and Twitter APIs to enable end-to-end automation of personal branding workflows.	

Hindi Conversational Bot React, Node.js, Express.js, Tailwind CSS, Deepgram API, Gemini AI, ElevenLabs API	Live Github
• Developed a real-time Hindi voice assistant supporting speech-to-text, AI-driven response generation, and text-to-speech with multiple voice options like male or female.	
• Implemented speech recognition via Deepgram API , conversational responses with Google Gemini AI , and natural voice synthesis using ElevenLabs API .	

- Engineered a modern, responsive UI with voice recording, auto-playback, and session management for contextual conversations.real-time UI updates.

AI Resume Screening & Chat System | *Node.js(TS), Gemini, Llama-Embeddings, Pinecone, Express, React* [Github](#) | [Live](#)

- Built an AI-powered ATS system that analyzes resumes and job descriptions (JD), generates semantic match scores, strengths, gaps, and personalized insights using LLMs.
- Implemented RAG-based chat system allowing recruiters to “chat with the resume” using context-aware responses powered by Pinecone vector store and Gemini LLM.
- Designed backend pipeline with semantic chunking (500 chars + overlap), Llama-v2 embeddings, and Pinecone-based vector retrieval to preserve context and avoid hallucination.
- Integrated secure file uploads (Multer) and PDF parsing logic, and built modular REST APIs for /upload, /analysis, and /chat to enable plug-and-play frontend integration.

WebRTC Real-time Multi-Object Detection | *WebRTC, YOLO, ONNX (WASM and server), Node.js, Docker* [GitHub](#)

- Made P2P network, Developed a real-time object detection system streaming video from mobile via WebRTC, performed YOLO inference, and overlaying detections with <100ms latency.
- Implemented dual inference modes—**browser-based WASM** for lightweight on-device detection and **server-side YOLOv8** for high-accuracy centralized processing.
- Benchmarked system performance (FPS, latency, CPU usage), achieving 10–30 FPS across modes with 44% lower P95 latency in server mode.
- Containerized with Docker and integrated ngrok + QR-code flow for seamless mobile access and real-time testing.

Smart Scheduler | *Next.js, TypeScript, Tailwind CSS, MongoDB, Google Calendar API, Node.js* [Live](#) [Github](#)

- Developed a full-stack scheduling platform connecting service providers (Sellers) with clients (Buyers) through seamless Google Calendar integration.
- Implemented automatic Google Meet link generation, live availability sync, and intelligent conflict prevention using Calendar API.
- Built role-based dashboards (Seller/Buyer) with analytics charts, booking trends, and personalized settings for availability management.
- Integrated secure Google OAuth authentication with NextAuth.js, JWT session management, and robust cancellation workflows.

Analytics Dashboard + ChatBot | *React, TypeScript, Tailwind CSS, shadcn/ui, flask, ChatBot-apis* [Live](#) [Github](#)

- Built a visually stunning, responsive analytics dashboard for digital marketing agencies with real-time campaign, revenue, and user engagement insights.
- Implemented advanced chart suite (*line, bar, pie, scatter, area*) using Recharts with lazy loading, live updates, and animated transitions.
- Integrated comprehensive export system (PDF, CSV, JSON, chart images) and profile management with drag-and-drop image uploads.
- Optimized with route-based code splitting, Lazy loading in image, graph and component and integrated chatbot to solve queries.

FastAPI Observability Stack | *FastAPI, Prometheus, Grafana, Loki, Tempo, Docker*

[Github](#)

CERTIFICATES

Flutter Fundamentals - Udemy
AWS Cloud Fundamentals

Web Development - Udemy
NVIDIA: Fundamentals of Deep Learning

SOFT SKILLS

Time Management, Team Collaboration, Adaptability, Analytical thinking, Leadership