






# Sagar Rajak

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## EDUCATION

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

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#### CERTIFICATES

Flutter Fundamentals - Udemy  
AWS Cloud Fundamentals

Web Development - Udemy  
NVIDIA: Fundamentals of Deep Learning

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#### SOFT SKILLS

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