SOMIL AGRAWAL

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github.com/somilagrawal52

EDUCATION

VIT Bhopal University	**CGPA: 7.9/10**	Bhopal, MP
B.Tech, Computer Science Engineering		Expected Aug 2026
St Michael Hr Sec School	**80%**	Satna, MP
Class XII, CBSE		May 2022
St Michael Hr Sec School	**70%**	Satna, MP
Class X, CBSE		May 2020

TECHNICAL SKILLS

Languages: C++, Python, Java, SQL, HTML, CSS, JavaScript
Frontend: React.js, TailwindCSS
Backend: Node.js, Express.js, REST APIs
Databases: MongoDB, MySQL
Cloud/DevOps: AWS, Render, Kubernetes, CI/CD Pipelines
Other: Web Scraping, LLM Integration (Gemini API), Git/GitHub

EXPERIENCE

Birlasoft — Node.js Intern/Apprentice   *Oct 2024 – Dec 2024*
- Contributed to backend development in Node.js and Express.js with a focus on secure, scalable APIs.
- Enhanced data handling and optimized server-side performance in client-facing applications.

PROJECTS

OneLife: AI-Powered Healthcare Management Platform
MERN Stack, Gemini API, WebSockets,WebScraping 2024–2025
- Architected end-to-end hospital management system with role-based dashboards (**Admin, Doctor, Patient**) ensuring secure JWT authentication and HIPAA-compliant data handling.
- Integrated **Gemini API** for smart medical chatbot with symptom analysis, appointment triage, and context-aware doctor recommendations.
- Built **web scraping pipeline** (WHO + health sources) for real-time disease/symptom updates and patient education modules.
- Deployed real-time **doctor-patient messaging** and **video conferencing** using WebSockets, enhancing telemedicine accessibility.
- Implemented **Razorpay payment gateway** with automated invoice generation, reducing billing time by 50%.
- Designed responsive UI (React + TailwindCSS) with dark mode, streamlined EHR workflows for 100+ concurrent users.
- Scaled on **AWS + Render** with Docker and CI/CD pipelines, achieving <1s latency under load testing.

Hand Face Rapid Response System (HFRRS)
TensorFlow, Deep Learning, Web Integration Feb 2024 – May 2024
- Engineered an AI-powered recognition system with 95% predictive accuracy for real-time gesture and facial expression detection.
- Deployed automated email alert system triggered by emergencies, reducing response time by 40%.
- Trained deep learning models on 100,000+ labeled images, achieving high precision and 30% faster real-time processing.

CERTIFICATIONS

- Full Stack web development by Udemy
- Front-End by Meta
- Cloud Computing by NPTEL

EXTRACURRICULARS

- Solved 500+ DSA problems across various platforms
- Successfully organized various Club events in campus