

Aditya Suhane

<https://adityasuhane-06.github.io/Portfolio/>

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EDUCATION

Gyan Ganga Institute of Technology and Sciences

Madhya Pradesh, India

B.Tech in Computer Science and Engineering (Data Science); CGPA: 7.91

Jul 2022 – Jun 2026

Relevant Coursework: Data Structures, Algorithms, Operating Systems, DBMS, Computer Networks, AI/ML

TECHNICAL SKILLS

- **Programming:** Python, C++, JavaScript, TypeScript, SQL, Bash
- **Full-Stack:** React, Redux, Node.js, Express, REST APIs, FastAPI, Flask
- **Computer Science:** Data Structures & Algorithms, OOP, SDLC, Agile
- **Cloud & Systems:** AWS, Azure, Microservices, RESTful APIs, Scalable Architecture
- **ML/AI:** TensorFlow, Keras, PyTorch, scikit-learn, LLM, OpenCV; real-time inference
- **Databases:** MySQL, PostgreSQL, MongoDB; performance tuning
- **Frontend/UX:** HTML5, CSS3, Tailwind CSS; responsive/mobile-first
- **DevOps:** Git/GitHub, Docker, CI/CD, Linux
- **Professional:** Cross-functional Collaboration, Technical Leadership, Problem-solving

EXPERIENCE

Sky Scanner (Forage)

Job Simulation

Software Engineering Intern

May 2025 – Jun 2025

- Designed microservice-based travel search components, scaling to 10,000+ daily requests and documenting service boundaries for maintainability.
- Implemented search logic processing datasets of 1M+ records, reducing p95 tail latency by 25%.
- Built responsive UI components with modern JS patterns and integrated 90% unit test coverage on core modules.

CodersCave (AICTE)

Remote

Data Science Intern

Sep 2023 – Oct 2023

- Processed and analyzed datasets of 500k+ entries, generating insights that informed 3 business decisions.
- Developed and deployed ML models improving prediction accuracy by 15% and implemented live model monitoring.
- Created interactive dashboards reducing stakeholder reporting time by 40%.

PROJECTS

Vibe Page – Full-Stack Blog Platform with Scalable Architecture (Mar 2025)

GitHub

- Designed and developed an end-to-end blogging platform using React, Redux, Tailwind CSS, Node.js, Express, and MongoDB, with seamless deployment via Vercel and CI/CD pipelines for production-grade delivery.
- Built secure authentication and session management using Firebase Auth, JWT, and bcrypt, protecting against token theft and brute-force attacks.
- Implemented real-time user interactions (likes, comments, bookmarks, reads) and a personalized blog recommendation engine, increasing engagement and session duration by 60%.
- Optimized performance and scalability with paginated RESTful APIs, Azure Blob Storage for media handling, and mobile-first UI achieving 92+ Lighthouse score and sub-200ms API latency under concurrent load.

Real-Time AI Inference System – ISL Recognition (Feb 2025)

GitHub

- Built production-ready real-time gesture recognition system processing 8,000+ training images with CNN architecture achieving 97.5% accuracy.
- Optimized inference pipeline to achieve sub-100ms latency using OpenCV and Flask, enabling performance-critical real-time applications.
- Designed scalable web application architecture supporting accessibility technology for hearing-impaired users.

Medical AI Platform – Malaria Detection System (Jan 2025)

GitHub

- Engineered a machine learning pipeline utilizing Convolutional Neural Networks for automated malaria detection from medical images, achieving over 96% classification accuracy on the NIH dataset through advanced model optimization.
- Architected and deployed a cloud-based inference system with Flask REST APIs, enabling scalable real-time image processing and prediction history management for healthcare applications.
- Implemented optimized data structures and algorithms to handle large-scale medical image datasets efficiently, demonstrating full-stack ownership from initial design to production deployment.

ACHIEVEMENTS & LEADERSHIP

- **Global Competitive Programming Excellence:** Ranked **986 / 200,000+** in TCS CodeVita Season 12 (top 0.5%), solving 5/6 algorithmic problems under timed constraints with sub-second runtime solutions.
- **Innovation & Intellectual Property:** Granted a patent for *SignSarathi*, an assistive tech platform enabling real-time sign language translation; reduced translation latency to 150ms in demos and showcased to 500+ attendees.
- **Eureka (IIT Bombay) Semifinalist:** Selected from 1,500+ teams to top 50 in Asia's largest B-Plan competition; pitched SignSarathi to 20+ industry leaders, earning commendations for scalability and social impact.