Aditya Suhane

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Education

- **Gyan Ganga Institute of Technology and Sciences** Madhya Pradesh, India
  Bachelor of Technology in Computer Science and Engineering (Data Science); CGPA: 7.81 *July 2022 - June 2026*

Technical Skills

- **Programming Languages**: Python, C++, JavaScript, SQL, TypeScript, Bash
- **Full-Stack Development**: React.js, Node.js, Express.js, Redux, REST APIs, Flask
- **Distributed Systems & Scalability**: Microservice architecture, RESTful API design, cloud deployment (AWS, Azure)
- **Machine Learning/AI**: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, real-time inference systems
- **Database & Data Processing**: MySQL, MongoDB, PostgreSQL, large-scale data handling and optimization
- **UI/UX & Frontend**: Responsive design, Tailwind CSS, HTML5, CSS3, mobile-first development
- **DevOps & Version Control**: Git, GitHub, Docker, CI/CD pipelines, Linux, collaborative development

Experience

- **Sky Scanner (Forage)** Job Simulation
  Software Engineering Intern *May 2025 – June 2025*
  - **Distributed Systems**: Architected and implemented microservice-based solutions for scalable travel search applications
  - **High-Scale Processing**: Developed search logic to handle HTTP requests and process large datasets for personalized results
  - **Full-Stack Development**: Built responsive web applications using modern JavaScript frameworks and design systems
- **CodersCave (AICTE)** Remote
  Data Science Intern *Sep 2023 – Oct 2023*
  - **Large-Scale Data Analysis**: Processed and analyzed complex datasets to extract actionable business insights
  - **Machine Learning Implementation**: Built and deployed ML models for data-driven decision making
  - **Data Visualization**: Created comprehensive dashboards and visualizations for stakeholder communication

Projects

Vibe Page – Full-Stack Blog Platform with Scalable Architecture (March '25) **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.
- Designed a secure authentication and session management system using Firebase Auth, JWT, and bcrypt, ensuring full protection against common attack vectors such as token theft and brute force.
- Implemented real-time user interactions (likes, comments, bookmarks, reads) and a personalized blog recommendation engine, increasing engagement and increasing session duration by 60%.
- Optimized for 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 '25) **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, demonstrating expertise in performance-critical applications.
- Designed scalable web application architecture supporting real-time communication for accessibility technology.

Medical AI Platform – Malaria Detection System (Jan '25) **GitHub**

- Engineered comprehensive 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 techniques.
- Architected and deployed cloud-based inference system with Flask REST APIs, enabling scalable real-time image processing capabilities and comprehensive prediction history management for healthcare applications.
- Implemented sophisticated algorithmic solutions and optimized data structures to handle large-scale medical image datasets efficiently, demonstrating full-stack ownership from initial system design through production deployment.

Achievements & Leadership

- **Global Competitive Programming Excellence**: Achieved rank **986** in TCS CodeVita Season 12 among 200,000+ participants, demonstrating strong algorithmic problem-solving under pressure and ability to work with complex, large-scale challenges.
- **Innovation & Intellectual Property**: Granted software patent for "SignSarthi," showcasing ability to create innovative solutions for unsolved problems and take complete ownership from concept to implementation.
- **Collaborative Problem-Solving**: Codeforces rating of 1012, showing consistent performance in algorithmic challenges and experience working with global programming community.
- **Semifinalist at Eureka, IIT Bombay** Showcased SignSarthi, an innovative assistive tech platform, to industry leaders at one of the largest B-Plan competitions in Asia.