

ADITYA ANIL

Software Developer & AI/ML Engineer

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PROFESSIONAL SUMMARY

- Highly motivated B.Tech Computer Science Engineering student and GitHub Top 0.5% contributor (2024) with specializing in the integration of modern web architecture and intelligent systems, including deep-learning, machine learning and full-stack development skills.
- Proven expertise spans full-stack development using the MERN Stack (React, Node.js, Express, and MongoDB); DevOps capabilities leveraging Python and UNIX/Linux environments; and the engineering of Machine Learning systems with TensorFlow and scikit-learn.
- Seeking a role as a Developer to apply expertise in Python, Frontend, and Machine Learning systems toward building highly scalable, secure, and performant products through clean engineering and collaborative problem-solving.

EDUCATION

B.Tech, Computer Science & Engineering (AI), Amrita Vishwa Vidyapeetham
Pursuing B. Tech. in Computer Science Engineering with specialisation in AI

Sep 2028

WORK EXPERIENCE

- Open Source Contributor, GitHub (Self)** Jul 2023 – Present | India
- Became **GitHub Top 0.5% Contributor (2024)**, demonstrating high-impact technical leadership and collaborative maintenance across diverse repositories utilizing Python, C++, GoLang, Node.js, and JavaScript.
 - Drove software quality and reliability by implementing critical features, optimizing performance, resolving bugs, and enforcing code standards through comprehensive testing and continuous improvement of technical documentation and issue triage processes.
- Senior Technical Writer, AiProff.AI Consultancy Services** Sep 2023 – Jan 2024 | Bengaluru, India
- Authored and published over 15 technical articles and documentation pieces on advanced AI/ML concepts (Computer Vision, NLP, Machine Learning), translating complex research into accessible content that established the firm's market expertise and thought leadership.
 - Awarded **Staff Employee of the Month (Oct 2023)** for exceptional contribution, communicating the firm's critical capabilities in identifying and mitigating vulnerabilities in AI models and emerging ML trends.
- Web Developer and UI Designer, Young Protons International Council** Apr 2023 – Jun 2023 | New Delhi, India
- Engineered and deployed highly scalable, user-facing features using the MERN Stack (React.js, Node.js) and TypeScript, driving significant UX improvements and establishing best practices in responsive, pixel-perfect design based on Figma wireframes.
 - Managed robust full-stack architecture, integrating data services across both MongoDB (NoSQL) and SQL databases, while maintaining rapid, automated deployment cycles by implementing a GitHub Actions CI/CD pipeline.

RECENT PROJECTS

- Mars Rover Path Finder Simulation, Autonomous Systems** Nov 2025
- Engineered an Intelligent System simulation in Python for Autonomous Navigation, focusing on the design and evaluation of advanced Heuristic Search Algorithms (A*) for optimal path planning.
 - Developed a novel motion-primitive Optimization Algorithm that incorporated a terrain-aware cost model and reactive control to solve the shortest-path problem, achieving a 30% reduction in mean computation time.
- RILearn, Reading & Interactive Learning App** Oct 2025
- Led the full-stack architecture and deployment pipeline for a high-performance Progressive Web App (PWA), implementing DevOps principles and CI/CD automation to guarantee continuous delivery and robust server architecture.
 - Architected and implemented core features using React.js and client-side persistence (LocalStorage/IndexedDB), including a Pop-Up Dictionary, Sentence Highlighting, and Note-Taking, while ensuring accessibility and offline reliability via PWA patterns.
- Tweet-From-Console, Sending Tweets from CLI Terminal** Oct 2025
- Developed and deployed a secure, lightweight Command-Line Interface (CLI) tool in Python, implementing robust security protocols and OAuth 1.0a authentication for reliable integration with external RESTful APIs over HTTP.
 - Demonstrated core software engineering principles by creating a modular application architecture, optimizing terminal-based I/O handling for optimal UX, and focusing on system design for quick, reliable content deployment.

RESEARCH AND PUBLICATIONS

- EfficientNet-B0 Multi-Scale Feature Fusion with Enhanced Skip Connections for Polyp Segmentation, IEEE ICCNT 2025 held at IIT Indore** Jul 2025
- Developed a state-of-the-art Deep Learning Medical Imaging model for accurate colon polyp detection and boundary segmentation to assist medical professionals.

TECHNICAL SKILLS

Languages: Python, Lua, Java, C / C++, Golang, Perl

Machine Learning: TensorFlow, scikit-learn, OpenCV

Web Dev: React, Node.js, Express, Typescript, MySQL, MongoDB, Postgresql

OS / Shell: Arch Linux, Ubuntu, Debian, UNIX

LANGUAGES

English — Fluent | **Hindi** — Fluent | **Malayalam** — Conversational | **German** — Basic

RECOGNITIONS

Finalist in DQ Labs Design Hackathon, CII DQ Labs

Jan 01, 2022

- Achieved Finalist position in the DQ Labs Annual Design Hackathon, a design-focused competition emphasizing creativity, problem-solving, prototyping, and user-centric thinking.
- Collaborated in a fast-paced hackathon environment, producing a functional concept backed by clear UX reasoning, rapid iteration, and teamwork.

Gold Medal in Cyber Eduheal Olympiad, SOF Eduheal Olympiad

May 01, 2018

- Secured the Gold Medal in the prestigious Cyber EduHeal Olympiad, ranking among the top national performers in computational thinking, cybersecurity awareness, and logic-based problem solving.
- Demonstrated strong foundational understanding of algorithms, digital systems, and analytical reasoning.

VOLUNTEERING & SOCIAL CAUSES

AI Safety and Ethics Youth Activist

May 2024 – Present

- Encode Justice is the world's first and largest youth movement for safe, equitable AI.
- Worked with the Encode Justice Team and its India Chapter to volunteer AI safety campaigns and push for reforms in India.

CERTIFICATION

IIT and CDAC Quantum Computing Certification

- Completed an advanced certification covering quantum gates, circuits, simulators, and QML workflows.
- Ranked among top performers out of 28,000+ participants, earning a Certificate of Merit.
- Built and simulated quantum programs while exploring algorithms such as QFT, Grover's Search, and Variational Circuits.

Intro to Machine Learning

- Hands-on machine learning foundations: model training, feature engineering, validation, and deployments.
- Used Python, scikit-learn, Pandas, and NumPy to build baseline ML models.

Introduction to Cloud Computing

- Covered cloud fundamentals: virtualization, containerization, distributed computing, and cloud security basics.
- Applied concepts to deploy personal and academic projects using AWS/Netlify.

HOBBIES

- Writing Blogs and Articles
- Playing Guitar
- Reading Books
- Listening Music
- Solving Puzzles (eg. Rubik's Cube)
- Making Side Projects