

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