Aditya Bhatt B

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Profile

Passionate B.Tech student specializing in Web Development with AI integration, and Embedded Systems. Skilled in leading projects, delivering engineering solutions to real-world challenges, and communicating effectively in multilingual teams. Committed to continuous learning, innovation, and contributing to sustainable community development through technology.

Education

Amrita School of Engineering, Amritapuri — Kollam, Kerala
B.Tech in Electrical and Electronics Engineering; CGPA: 8.26 — *Aug. 2023 – Present*

Kendriya Vidyalaya Kollam — Kollam, Kerala
Higher Secondary (Science with CS): 87% — Secondary (Class X): 87.4% — *2020 – 2023*

Projects

Farmlink - Phone call AI Bot | *Multilingual AI, NLM, Elevenlabs, Text to Speech, Twellow* | 2025
- Developed a multilingual AI-powered voice assistant providing farmers with accurate, real-time solutions via phone calls.
- Leveraged natural language modeling and AI to enable seamless, accessible agricultural support across multiple languages.
- Offers immediate solutions to farming-related issues, helping farmers respond quickly to challenges.

Prepaid Energy Meter with ML Load Forecasting | *Arduino, GSM, Machine Learning* | 2025
- Developed a prepaid energy meter system integrating Arduino and GSM for real-time monitoring, dynamic tariff management, and energy theft detection with notifications via SMS.
- Implemented machine learning models separately to forecast and predict energy consumption, enabling efficient load management and accurate billing.

Line Following Robot | *Arduino Nano, PID Controller, Motor Driver, C++* | 2024
- Designed and developed competition-grade line-following robot using Arduino Nano.
- Implemented PID control algorithm for precise path tracking and speed optimization, achieving reliable performance in robotics competitions.

Electronics Component Detection System | *Python, YOLO v8, Computer Vision* | 2024
- Developed an intelligent electronics component detection system using the YOLO v8 deep learning model for accurate object detection and classification.
- Implemented image processing techniques to achieve high accuracy in recognizing various electronic components and circuit boards.

Internships

Keltron Component Complex / Knowledge Center — Sept. 2024
Industrial Training Intern — *Karakulam,Palayam, Trivandrum*
- Completed tour of manufacturing facilities and gained insights into production processes.
- Understood the manufacturing processes of various electric and electronic devices.
- Gained hands-on experience with industrial-grade equipment and quality control measures.
- Completed training in C++ programming language and Data Structures & Algorithms.

Kerala State Electricity Board (KSEB) — Aug. 2024
Technical Intern - 110KV GIS Substation — *Kollam, Kerala*
- Familiarized with the working principles of circuit breakers and gas insulated switchgear.
- Studied RMU, feeder, bus coupling, GIS transformers, and auxiliary systems.
- Gained practical knowledge of high-voltage electrical systems and substation operations.

Certifications & Workshops

Certifications

- Amazon Web Service Cloud Practitioner Course 2025 (Ongoing)
- Udemy course on Machine Learning and AI 2025 (Ongoing)

Workshops

- Neural Nexus AI/ML hands-on workshop 2025

Competitions & Achievements

- Dot.Hack-25 36-hour hackathon organized by IEEE MACE 2025
- Line Follower Robot Competition organized by SESA 2024
- First Prize as a Percussionist in ESEB National Level Group Song Competition 2022

Publications

Paper titled "Participatory Approaches to Sustainable Rural Development: A Study of Naala Village Uttarakhand", was accepted for ICSRF 2025 Conference.

Community Outreach Project

Live in Labs July 2025

- Led biogas plant and water filtration system implementation in Naala Village, Uttarakhand, supporting sustainable development.
- Guided community on sustainable use, led health awareness including anti-tobacco initiatives, and managed PRA-based reporting.
- Prepared village study using PRA, HCD, SDG, and EHS frameworks; served as primary Hindi communicator.

STEM Outreach at Kendriya Vidyalaya Kollam Sep. 2025

- Led hands-on workshops introducing students to Arduino, basics of electricity, and sustainable projects.
- Provided career guidance across Electrical & Electronics and Renewable Energy fields.
- Inspired students to pursue engineering projects and explore STEM fields beyond the classroom.

Skills

Programming Languages: Python, C, C++, Embedded C , HTML , CSS, JavaScript
Tools & Platforms: LTspice, Arduino IDE, MATLAB, Adobe Premiere Pro, After Effects,
Technologies:Web development, Machine Learning, Computer Vision, IoT, Embedded Systems
Hardware: Arduino, GSM Modules, Various Sensors
Soft Skills: Leadership, Teamwork, Communication, Presentation, Problem-solving, Adaptability

Hobbies

Playing percussion instruments

Video editing and production

Languages

- English, Hindi, Konkini—Read, Write, Speak, Understand;
- Malayalam,Tamil—Speak, Understand