

ADITYA SHIVANAND KANDAKUR

Founder – AskSummu · IoT, AI & Embedded Systems Engineer
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Portfolio: <https://asksummu.vercel.app>

PROFILE

Engineering student and founder with practical experience in IoT systems, embedded engineering, PCB design, automation, and edge AI. Skilled in developing complete solutions integrating hardware, software, AI, and cloud technologies.

SKILLS

- **Circuit Analysis & Design**
 - **Embedded Systems:** ESP32, ESP32-CAM, Arduino
 - **PCB Design:** 3–5 custom PCBs (schematic → layout → Gerber)
 - **Edge AI:** Cry detection, pose detection, emotion recognition
 - **IoT & Cloud:** ESP RainMaker, MQTT
 - **Programming:** C, C++, HTML, CSS, JavaScript, PHP
 - **Home Automation:** Alexa & Google Assistant integration
 - **App Development:** MIT App Inventor
 - **Languages:** Hindi, English, Kannada, Konkani
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EXPERIENCE & LEADERSHIP

Team Lead – AskSummu Innovation Team

- Managed a 9-member engineering team across AI, IoT, embedded systems, app and web development.
- Handled roles, workflows, and documentation for hackathons and product development.

Project Leader – IoT & AI Systems

- Led development of multiple ESP32-based AI/IoT projects.
 - Responsible for hardware design, PCB development, AI integration, cloud setup, and app interfaces.
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PROJECTS

IntelliCradle – AI-Powered Baby Monitoring & Care Assistant

Camera-based, contactless system built using ESP32 & ESP32-CAM featuring cry detection, facial recognition, emotion/pose tracking, breathing & heartbeat estimation, fever/skin analysis, diaper detection, intruder alerts, hazard detection, and predictive AI for hunger & sleep. Includes copper-pipe cooling/heating system, battery backup, and complete mobile dashboard.

Home Automation with Alexa, Google Assistant & Touch Panels

Smart-home system with ESP32 + ESP RainMaker, custom PCB touch switches, real-time monitoring, and automation workflows.

AI-Based Human Behavior & Stray Dog Surveillance System

ESP32-CAM based surveillance detecting littering, spitting, misbehavior, and stray dog activity with auto WhatsApp notifications.

AskSummu – Electronics Learning Platform

Online platform offering 50+ electronics calculators, tutorials, news updates, and dashboards.

Hand-Gesture Based Presentation Controller (NEW)

Wearable device for teachers to control PPTs using gestures. Includes ESP32, MPU6050, TTP223 touch sensor, custom PCB, and 3D-printed case.

Custom PCB Designs

Designed 3–5 PCBs including sensor modules, relay boards, ESP32 interface boards, and power regulation units.

EDUCATION

Bachelor of Engineering (Electronics & Computer Engineering)

Your College Name, Goa
2022 – Present

ACHIEVEMENTS

- **Top 5 – Goa Open Innovation Challenge** (100+ participants)
- **2nd Place – Techyon Pitch Deck Competition** (College-level)
- **Top 100 – CYI 2024, Nehru Science Centre, Mumbai** (800+ national participants)

- **Top 100 – SBI Youth Ideathon, IIT Delhi** (1,000+ entries)
 - **2nd Place – Home Automation Competition** (Smart home innovation)
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STRENGTHS

- Complete hardware + PCB + AI + cloud + app integration
- Fast prototyping & practical engineering
- Strong innovation mindset
- Passion for IoT, automation, and embedded systems