

Akash Kumar

Computer Science Student - Internet of Things (IoT) Specialization

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PROFESSIONAL SUMMARY

Results-driven Computer Science Engineering student specializing in IoT with expertise in full-stack development, embedded systems, and machine learning. Proficient in Java, Python, and JavaScript, skilled in Arduino programming, sensor integration, and data-driven IoT systems. A collaborative problem-solver passionate about building scalable and intelligent software solutions.

EDUCATION

Presidency University

B.Tech in Computer Science Engineering (IoT Specialization) — CGPA: 7.9/10.0

Bangalore, Karnataka

Aug 2022 – May 2026

St. Claret PU College

Higher Secondary (12th) — 86.33%

Bangalore, Karnataka

2021 – 2022

Air Force School

Secondary (10th) — 90.17%

Jalahalli, Karnataka

2019 – 2020

TECHNICAL SKILLS

Programming Languages: Java, JavaScript

Databases: MySQL (SQL), MongoDB

Tools & Technologies: HTML, CSS, Git/GitHub (Version Control), Android Studio, Eclipse IDE

Frameworks / Specializations: MERN Stack, Internet of Things (IoT)

PROJECTS AND EXPERIENCES

Speech-App – AI-Powered Speech Analysis — *Next.js/React.js, Hugging Face, Google Cloud Speech-to-Text API* 2025 – Present

- Developed a real-time speech application processing 100+ transcriptions/min with ML-based stammering detection (90% accuracy).
- Integrated 5+ advanced Hugging Face ML models to generate 500+ personalized speech improvement recommendations.
- Designed a responsive UI tested on 10+ devices, reducing load times by 30% for seamless user experience.

Expense Tracker Web Application — *HTML, CSS, JavaScript, PHP, MySQL*

2025

- Built a full-stack web app to manage personal expenses with a responsive interface.
- Implemented user authentication and data persistence using PHP and MySQL.
- Created interactive charts with JavaScript, providing visual insights into spending habits.

Smart IoT Vacuum Cleaner — *ESP-32, IoT, Web Development, Sensor Integration*

2025

- Developed an IoT vacuum cleaner with automated navigation, managing 2 cleaning cycles/day via a web interface.
- Used ESP-32 with 2 ultrasonic sensors to achieve 85% real-time obstacle detection accuracy.
- Optimized backend logic, reducing energy consumption by 15% and improving autonomous cleaning path efficiency by 30%.

CERTIFICATIONS

- Machine Learning and Data Science Projects (Udemy)
- Java, Python, JavaScript, CSS (HackerRank)
- Introduction to Career Skills in Software Development (LinkedIn Learning)

EXTRACURRICULAR ACTIVITIES

- National Cadet Corps (NCC) – A B Certificate holder; participated in leadership and teamwork training programs.
- Attended Combined Annual Training Camp, Doddaballapur (2018) – Developed discipline, teamwork, and problem-solving skills.

LANGUAGES

- English
- Hindi
- Kannada
- Malayalam