

# KEERTHAN C.K

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## ABOUT ME

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Electronics & Communication Engineer with a strong background in Embedded IoT, web technologies, and automation. Knowledgeable in programming languages such as Python, Flask, Django, SQL, and JavaScript with practical experience in building data-driven dashboards and full-stack web apps. Completed many real-world projects utilizing back-end systems, databases & embedded programming. I not only pick things up quickly, I work well with others and have a passion for writing effective software solutions that are scalable, maintainable, and impactful.

## SKILLS

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**Programming:** Python (Pandas, Scikit-learn, Numpy), MATLAB, JavaScript.

**Frontend:** HTML, CSS, Flask, Django, SQLite, GitHub.

**Embedded IoT:** Microcontrollers (ARM, ESPRESSIF, INTEL, Raspberry pi)

**VLSI & Digital Design:** Verilog HDL, FPGA/ASIC workflows, Ki-CAD, Cadence tools.

**Edge Computing & PLC:** Siemens PLC with TIA Portal, Edge Computing (Datonis).

## PROJECTS

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### ◆ Predictive Maintenance for Automobiles:

Feb 2025

**Tech:** Embedded C, Python (Flask), SQLite3, IoT Sensors, HTML 5, CSS 3, JS.

Developed an IoT vehicle monitoring system with Flask Web App & ML model (85% accuracy) to forecast failures in real-time with multi-sensor system & alerts mechanism, manual diagnostics & downtime were reduced by 40%.

### ◆ RFID Based Multi-Purpose Student Card:

Aug 2022

**Tech:** Python (Django), PythonAnywhere (Hosting), Thing-Speak, HTML, CSS, Embedded IoT.

Engineered a smart card solution for campus automation like Attendance, Library access & Inventory tracking; the RFID authentication, reduced manual tracking errors by 70% also provide , secure student data storage & remote access.

## EDUCATION

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### B.E. in Electronics & Communication Engineering

Bangalore, KA

Acharya Institute of Technology (VTU) CGPA: 7.53

2022 – 2025

### Diploma in Electronics & Communication Engineering

Bangalore, KA

Government Tool Room & Training Centre (DTE) CGPA: 8.55

2019 – 2022

## INTERNSHIP & TRAINING

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### ◆ Embedded Systems & IoT Intern

Contriver Technologies, Bangalore, KA | Nov 2024 – Mar 2025

- Worked on real-world projects: Predictive maintenance & Swarm Drones .
- Gained hands-on experience in embedded IoT & firmware, Microcontrollers, and IoT protocols.
- Built hardware prototypes, debugged circuits, and integrated web dashboards with alert systems.
- Collaborated in cross-functional teams, focusing on problem-solving and real-time testing.

### ◆ Data Science trainee

IBM Skills Build (EDUNET) , Bangalore, KA | Nov 2023 – Dec 2023

- Trained in emerging technologies like AI & Cloud computing; Developed an NLP Chat bot for E-commerce
- Gained exposure to data handling, cloud architecture, tech support, and NLP using Watson tools.

### ◆ Edge Computing & PLC Programming Trainee

GT & TC In-plant Training, Bangalore, KA | Apr 2022 – Jun 2022

- Acquired experience with Siemens SIMATIC PLCs, programming in TIA Portal, and Industrial Edge applications.
- Integrated Datonis Edge platform for real-time data processing, and secure cloud connectivity, remotely.

## CERTIFICATIONS

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- **Creative & Critical thinking** – Coursera | Jun 2024
- **Full Stack Development** – freeCodeCamp | Nov 2024