KEERTHAN C.K

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ABOUT ME

Electronics and Communication Engineer with practical experience in full-stack development and IoT integration. Proficient in Python, Node.js, React, SQL, and cloud platforms, with a focus on building scalable applications. Skilled in software and embedded systems through hands-on projects involving automation and data-driven systems. Curious, adaptable, and committed to continuous learning.

SKILLS

Programming: Python (Flask, Django), JavaScript, Embedded C.
Frontend Dev: HTML5, CSS3, Tailwind, React.
Backend & Database: Node.js, Express, SQL, Mongo.
Cloud & Tools: Git & GitHub, Google Cloud, PythonAnywhere.
Embedded IoT: Microchips (ARM, ESPRESSIF, Intel, Raspberry pi).

PROJECTS

Predictive Maintenance for Automobiles: Feb 2025
Tech: Python (Flask), SQLite3, HTML/CSS, JS.
Developed a full-stack web app to monitor vehicle components in real time. Built a Flask backend to receive sensor data via MQTT, stored it in SQLite3, and designed a responsive dashboard to display faults and forecasts. Integrated ML model (85% accuracy) to predict component failures and reduce downtime by 40%.

RFID-Based Multi-Purpose Student Card: Aug 2022
Tech: Python (Django), PythonAnywhere (Hosting), Thing-Speak, HTML/CSS, Embedded IoT.
Built a Django web platform for automating attendance, library access, and lab inventory using RFID. Designed RESTful backend for data handling and user access, and hosted the system on PythonAnywhere. Reduced manual tracking errors by 70% with real-time cloud updates and RFID authentication.

EDUCATION

Diploma in Electronics & Communication Engineering	Bangalore, KA
Government Tool Room & Training Centre (DTE) CGPA: 8.55	2019 – 2022
B.E. in Electronics & Communication Engineering	Bangalore, KA
Acharya Institute of Technology (VTU) CGPA: 7.53	2022 – 2025

INTERNSHIP & TRAINING

Embedded Systems & IoT Intern
Contriver Technologies, Bangalore, KA | Nov 2024 – Mar 2025
• Worked on full-cycle projects involving IoT hardware, data capture, and backend integration.
• Gained hands-on experience in sensor interfacing, embedded S/m, Microcontrollers, and IoT protocols.
• Built hardware prototypes, debugged circuits, and integrated cloud dashboards with alert systems.
• Collaborated in cross-functional teams, focusing on development and 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 understanding of cloud-based API integration, automation, and conversational UX design.

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.
• Understood edge-to-cloud data flow and control systems, bridging embedded logic with remote dashboards and API endpoints.

CERTIFICATIONS

• **Creative & Critical thinking** - IBM, Coursera | Jun 2024