

# Arun Karthick N

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## Education

<b>K.L.N. College of Engineering</b> <ul style="list-style-type: none"><li>• BE Electronics and Communication with Honours – <b>CGPA:</b> 8.41/10</li></ul>	Oct 2021 – Apr 2025
<b>AKNU S.Sundar Matric Hr Sec School</b> <ul style="list-style-type: none"><li>• HSC in Computer Science – <b>Percentage:</b> 89.78</li></ul>	Jun 2020 – May 2021
<b>AKNU S.Sundar Matric Hr Sec School</b> <ul style="list-style-type: none"><li>• SSLC – <b>Percentage:</b> 88.60</li></ul>	Jun 2018 – Mar 2019

## Skills

**Languages:** C, C++, Python, Java, SQL

**Developer Tools:** VS Code, Android Studio, Google Colab, Git, Github

**Operating Systems:** Linux, Windows

**SD Concepts:** Object Oriented Programming, Data Structure and Algorithm, Agile-Scrum

**Soft Skills:** Communication, Team Collaboration, Time Management, Critical Thinking, Attention to Detail

## Internship

<b>Project Intern</b> , K.L.N Innovation & Research Park – Sivagangai, Tamil Nadu	Mar – Dec 2023
<b>Laser Transmitter &amp; Receiver Signal Coordination System for Land Leveling Unit</b>	
<ul style="list-style-type: none"><li>• Collaborated with a team of six to engineer a MicroPython-based system on Raspberry Pi that delivers fast, precise real-time elevation profiling, significantly enhancing operational efficiency for farmers</li><li>• Integrated sensor networks and optimized data processing pipelines, enhancing overall IoT and embedded system performance.</li></ul>	

## Projects

<b>SmartAgroBiz: ML-Powered Farming and E Commerce Solution</b>	May 2025
<ul style="list-style-type: none"><li>• Built a cross-platform e-commerce mobile app using Flutter and Supabase to connect farmers with local buyers, enabling real-time product listing and order management.</li><li>• Developed a Random Forest-based model using historical district-level data to recommend region-specific crops by predicting yield, saturation, and profitability metrics</li></ul>	
<b>IoT Enabled Air Quality Monitoring System</b>	May 2024
<ul style="list-style-type: none"><li>• Developed software solutions employing Embedded C, enhancing the functionality of a real-time air quality monitoring system and achieving reliable data logging at intervals of every five seconds.</li><li>• Designed a cloud-based alert system to notify users about critical levels of air quality.</li></ul>	
<b>Smart Energy Management System Using IoT</b>	Feb 2024
<ul style="list-style-type: none"><li>• Engineered a real-time energy management solution using Raspberry Pi 3, integrating advanced sensors and wireless on/off controls for seamless home automation.</li><li>• Designed an intuitive dashboard with Embedded C to deliver actionable energy analytics and enable remote device management.</li></ul>	

## Certificates

- **C for Everyone: Programming Fundamentals** (University of California)
- **Python** (Spoken Tutorial, IIT Bombay)
- **TCS iON Career Edge - Young Professional** (TCS iON)
- **Cybersecurity Essentials** (ICT Academy)
- **Introduction to Industry 4.0 and Industrial Internet of Things** (NPTEL)
- **Learnathon 2022** (ICT Academy)