

Vishal SP

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EDUCATION

KIT-KalaignarKarunanidhi Institute Of Technology,Coimbatore ,India
B.E-Electronics and Communication , Pre-Final year
Coursework: Microprocessor and Microcontroller,Communication Networks, Digital Signal Processsing,Control System,Embedded Systems

2023 – 2027
Current **CGPA: 8.40/10.0**

EXPERIENCE

Inplant Training, CodeBind Technologies– Coimbatore, India (offline)
• Gained hands-on experience in microcontroller programming using Embedded C (Arduino, ESP32)
• Worked with communication protocols like UART, I2C, SPI, and implemented interrupt-based and timer-based operations.
• Developed a mini IoT system using ESP32 with cloud connectivity (MQTT/HTTP)

Dec 2024

Web Development Intern, Jclick Solutions– Kanniyakumari, India (offline)
• Gained strong knowledge in HTML, CSS, and JavaScript for creating structured and responsive web pages.
• Learned back-end development using Node.js and Express.js for building server-side applications.
• Worked with SQL databases for handling data storage and integrating backend with database operations.

June-July 2025

PROJECTS

Carbon Emission Dashboard| HTML,CSS,JS,Flask,SQL,Postman
• Built a centralized analytics dashboard to visualize carbon emission data using interactive charts, trend lines, and category-based insights.

Nov 2025

LORA-Based Grain Storage Repository| LoRa, Sensors, Microcontroller, Solar Panel,Gateway
• Designed and implemented a LoRa-enabled sensor network to monitor temperature, humidity, and gas levels inside grain storage silos in real time.

Nov 2025

ECG Signal Noise Removal Using MATLAB| MATLAB, Signal Processing Toolbox
• Designed and implemented a noise removal system for ECG signals using MATLAB to improve signal clarity and diagnostic accuracy.
• Evaluated signal quality improvement using SNR (Signal-to-Noise Ratio) and visual waveform comparison.

Jan 2026

GitHub Link- [ECG Signal Noise Removal](#)

TECHNICAL SKILLS

Basics of C	Html
Basics Of Java	CSS
Basics Of SQL	
Matlab	

CERTIFICATIONS & COURSES

Infosys Springboard-Java Foundation	2024
Coursera-Introduction To IOT and Embedded System	2024
Coursera-IOT Communication	2024
Infosys Springboard -Database Management System	2025
Matlab-Signal Processing Onramp	2026

COMPETITIVE PROGRAMMING

Leetcode : Max rating - **1442**| Solved problems: **10** | Top **73.2%** globally |Highest Rank : **9463** |

Codechef : Max rating - **831** | Position : **1** Star | Problems : **43**| Highest rank **18548** in Starters 196 (Rated) **167** in division 4
Global Rank in Codechef : **190297**

ACHIEVEMENTS

- Participated in a 24-hour coding hackathon, applying analytical and problem-solving skills to develop functional software solutions under time pressure.
- Competed in a 36-hour prototype hackathon, building a functional software prototype and presenting it to judges, showcasing rapid development and problem-solving skills.
- Presented a research paper titled “Integration of LoRa-Based Wireless Sensor Networks Into An Intelligent Storage Repository”, highlighting innovative approaches in IoT-enabled Smart Agriculture.