KAVIN KUMAR G S

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EDUCATION

B.E -ECE-Sri Eshwar College Of Engineering || **CGPA:8.05 (upto 2nd sem)**	**2024-2028**
HSC - Anugragha International School || **72.6%**	**2022-2024**
SSLC - Anugragha International School || **78.8%**	**2021-2022**

INTERNSHIP

EMBEDDED AND IOT (NIELIT) (ONGOING)   **DECEMBER 2025**

• Intern in Embedded & IoT domain, working with microcontrollers, communication protocols (UART, SPI, I2C), and embedded C programming.

• Learning end-to-end IoT workflow including sensor integration, data communication, and device-to-cloud connectivity.

PROJECT

RAILWAY TRACK CRACK DETECTION (IOT -BASED)   **2024**

Designed a system for detecting cracks in railway tracks using sensors integrated with Arduino and ESP32 for real-time monitoring and alerting.

ECORAIL GAURDIAN FOR ANIMALS (IOT-BASED)   **2025**

Designed a smart railway safety system using LiDAR sensors and ESP32-CAM to detect animals on or near tracks. The system sends real-time alerts and captures images through a Wi-Fi-based web interface, helping prevent train-animal collisions.

SMART PIPE LEAK DETECTION SYSTEM (IOT-BASED)   **2025**

Developed a smart system to detect small water leaks in pipelines using IoT sensors. The solution uses acoustic sensing and data processing to identify leaks early and reduce water loss. Designed to be low-cost, easy to install, and suitable for real-time monitoring.

CERTIFICATIONS

IOT Device Programming(At MIT)	**CDAC**	**2025**
Certified in LINUX	**REDHAT**	**2025**
Introduction To Networking	**NVIDIA**	**2025**
Certified in c and c++	**INTERNSHALA**	**2025**

ACHIEVMENTS

Protogen Hacakthon	Secured 2nd place in Protogen
Freshathon 2025	Won 1st place in freshathon 2025 amoung all the teams from my class.
HackwithUttarpradesh	Shortlisted in top 300 teams across India
PEC Hacks	Shortlisted for Final round

CODING PROFILES

CodeChef	**Solved 150+ problems	Link**
Leetcode	**Solved 60+ problems	Max Rating : 1,465	Global rank : 247,526	Link**
Skill Rack	**Solved 800+ problems	200+ Bronzes	Link**

SKILLS

Programming Languages	C	Python	Java	Embedded C	Verilog
Tools	Vscode	GitHub
Protocol	UART	SPI	I2C	MQTT
Other	Linux