

VIVEK KUMAR VISHWAKARMA

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Linkedin

Github

LeetCode

Portfolio

EDUCATION

Vellore Institute of Technology Bhopal, Madhya Pradesh

B.Tech - ECE with (AI and Cybernetics) - **8.36/10**

Oct 2022 – On-going

Bhopal, Madhya Pradesh

Sri Chaitanya Junior College S.R Nagar

12th Class - **9.06/10**

Hyderabad, Telangana

Sri Sai Chaitanya Techno High School

10th Class - **9.2/10**

Hyderabad, Telangana

TECHNICAL SKILLS

Languages: C, C++, Embedded C, HTML, CSS, JavaScript, SQL

Technologies/Frameworks: Arduino, Raspberry Pi, STM32, TensorFlow, OpenCV, Fusion360

Additional Tools: EasyEDA, Proteus, Multisim, LTspice, Cadence, MATLAB, Simulink, Sensor Interfacing Modules, Mission Planner (for UAV control)

EXPERIENCE

Edunet Foundation–AI: Transformative Learning with TechSaksham

Dec 2024 - Mar 2025

Role - AI/ML Intern Python

Gurgaon, Haryana

- Engineered an AI model for plant disease detection **95% accuracy** using CNN, TensorFlow, Keras.
- Completed intensive training on AI, Machine Learning, and Computer Vision, achieving a **95% proficiency score** in final assessments.

Intern at Pantech Solution

Jan 2024 - Apr 2024

Role - Embedded Systems Intern

Chennai, Tamilnadu

- Developed robust microcontroller-based systems leveraging ARM Cortex-M4 achieving **100% reliability** in sensor data acquisition and processing.
- Acquired hands-on expertise in debugging, design, and teamwork, achieving a **90% success rate** in project deployments and hardware-integration tasks.

PROJECTS

Drone with Obstacle Avoidance for Emergency Services

Jan 2025 - Mar 2025

- Built an autonomous quadcopter achieving **95% obstacle detection and avoidance accuracy** in disaster environments using LiDAR and computer vision.
- Integrated GPS, IMU, and Raspberry Pi for precision path planning and payload delivery, achieving a **90% mission success rate** in simulated emergencies.

Voice Controlled Robotic Car

Feb 2024 - May 2024

- Developed a voice-controlled mobility system with **92% accuracy** using Voice Recognition Module V3 and 80 customizable commands for disabled user assistance.
- Designed a responsive, user-friendly interface that improved accessibility and reduced navigation effort by **30%** leading to **94% user satisfaction** in assistive environments.

CERTIFICATIONS

- Introduction to Self Driving Car - Coursera
- GEN AI Using IBM Watsonx - IBM
- Embedded Systems Design & IOT - Pantech.AI
- VLSI Design (SPI RTL)
- Introduction to Electronic Sensors - Alison
- ATV Engineering and Development

EXTRACURRICULAR

- Secretary of SEDS Nebula-Present** (Coordinated technical events, managed communications, and facilitated team operations in the student rocketry and space science division.)
- Student Coordinator of AIEM Club** (Led the planning and execution of AI and embedded systems workshops, fostering innovation and student engagement.)
- President of Electric Vehicle Club** (Led the EV Club by overseeing project development, organizing awareness campaigns, and guiding team initiatives on sustainable electric mobility.)
- First Prize** in the KARMAN Sed Nebula, Prize money Rs. 10,000

HOBBIES

- Book Reader** – Enthusiastic about exploring diverse genres and authors, with a particular interest in literature, fiction, and non-fiction.
- Sports Enthusiast** – Kabaddi, Cricket