Vivek Kumar Vishwakarma

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EDUCATION

Vellore Institute of Technology Bhopal, Madhya Pradesh **Oct 2022 – Jun 2026**
B.Tech - ECE with (AI and Cybernetics) - ***8.36/10*** *Bhopal, Madhya Pradesh*

Sri Chaitanya Junior College S.R Nagar
12th Class - ***9.06/10*** *Hyderabad, Telangana*

Sri Sai Chaitanya Model High School SVV Nagar
10th Class - ***9.2/10*** *Hyderabad, Telangana*

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, C, C++, Embedded C, SQL, VLSI-HDL, Python
Technologies/Frameworks: Arduino, Pi-OS, STM32, TensorFlow, OpenCV, Fusion360,
Additional Tools: EasyEDA, Proteus, Multisim, LTspice, Cadence, MATLAB, Simulink, Sensor Interfacing Modules, Mission Planner, Excel, Power BI (Beginner), Data Preprocessing, Model Evaluation

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 | Python | C++ **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 | Arduino IDE | C++ **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
- Embedded Systems Design & IOT - Pantech.AI
- Architecting Solutions on AWS
- GEN AI Using IBM Watsonx - IBM

EXTRACURRICULAR

- **Head of Electronics Innovation–Vayu Drifters 2025 (Go-Karts Division)**: Led the electronics subsystem for the racing go-kart team, managing sensor integration & telemetry development.
- **Student Coordinator of AIEM Club 2024**: Led the planning and execution of AI and embedded systems workshops, fostering innovation and student engagement.
- **President of Electric Vehicle Club 2023**: Led the EV Club by overseeing project development, organizing awareness campaigns, and guiding team initiatives on sustainable electric mobility.
- **First Prize** in the KARMAN Rocketry Model **SEDS Nebula 2022**, Prize money Rs. 10,000

HOBBIES

- **Book Reader** – Curious about a wide range of genres, with a special focus on literature.
- **Sports Enthusiast** – Kabaddi, Badminton