VIKRANTH V

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PROFESSIONAL SUMMARY

Third-year Electronics and Communication Engineering student with strong programming skills in Python, C, and web development. Experience in AI/ML projects, Web Development, and IoT applications with proven ability to work on team projects and deliver functional IoT and software solutions.

EDUCATION

Bachelor of Technology in Electronics and Communication Engineering

SRM Institute of Science and Technology | **CGPA: 9.35** **Aug 2023 – May 2027**

SKILLS

Programming languages: Python, C
Databases: MySQL
Libraries: OpenCV, MediaPipe
Tools & Platforms: Git, Firebase, VS code
Technologies: Machine Learning, IoT, Web Development

WORK EXPERIENCE

Summer Intern

SortyX Ventures Private Limited **June 2025 - July 2025**

- Designed and implemented real-time IoT and robotics projects integrating with AI, microcontrollers, PCB design, sensors, and communication devices.
- Contributed to prototyping and deployment of AI-enabled IoT solutions for smart waste management, applying concepts of embedded systems, hardware integration, and IoT protocols (MQTT, Wi-Fi, Bluetooth), earned a recommendation letter for impactful contributions.

Winter Intern

National Small Industries Corporation **Dec 2024 - Jan 2025**

- Gained hands-on experience in industrial processes and small-scale manufacturing ecosystems.
- Worked on IoT projects involving Raspberry Pi implementation.
- Developed understanding of industrial automation and manufacturing systems.

PROJECTS

Water Quality Monitoring System using IoT **Jun 2025 - Jul 2025**

- Designed a real-time ESP32-based water quality monitoring system using TDS, pH, turbidity, and DHT11 sensors with live data visualization on a Firebase dashboard.
- Conducted research analyzing urban–rural water quality awareness and introduced a unique aquatic edibility classification to assess water suitability for aquatic life.

Offline Malpractice Detection System **Feb 2025 - Apr 2025**

- Developed computer vision-based system to detect exam malpractices including hand signs, peeking behavior, and object usage.
- Implemented real-time pose estimation and object detection using Python, OpenCV, and MediaPipe.

Smart Parking Lot Management System **Oct 2023 - Nov 2023**

- Built a small prototype for a smart parking system using Arduino Uno and sensors to streamline parking operations.
- Integrated an I2C LCD display to guide users to available parking slots efficiently.

CERTIFICATION

- ‘Verilog HDL Fundamental for Digital Design Verification’ by Udemy
- ‘ISF Member’ by Institution of Electronics and Telecommunication Engineering Society
- ‘Appreciation for Event Handling’ by SRM IETE ISF