

# KIRAN SAKTHIVEL A

B.E. Electronics and Communication Engineering

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🌐 [KiranSakthivelPortfolio](#)

🌐 [LinkedIn](#)

📅 29/02/2004

## EDUCATION

<b>Bachelor of Engineering</b> Sri Ramakrishna Institute of Technology CGPA 8.3	2021-2025
<b>HSC</b> Sindhi Vidyalaya Matric Higher Secondary School Secured 85.2%	2020-2021
<b>SSLC</b> Sindhi Vidyalaya Matric Higher Secondary School Secured 86.2%	2018-2019

## SKILLS & COMPETENCIES

**Technical Skills:** Java, HTML, CSS, JavaScript, SQL.

**Soft Skills:** Analytical Thinking, Time Management, Teamwork & Collaboration, Active Listening.

**Languages Known (Speaking, Reading, and Writing):** English, Tamil.

## PROJECTS

### Event Website for CORNUCOPIA 2024

- Built an event management website using HTML, CSS, and JavaScript.
- Designed a responsive UI for event registration and details, increasing user engagement by 30%.

### Vehicle Number Plate Detection

- Developed an image processing system for automatic number plate recognition with 95% accuracy.
- Optimized preprocessing techniques to enhance detection efficiency and system robustness.

### Fingerprint-Based Car Ignition System (Patent Pending)

- Engineered a biometric car ignition system using Arduino and RFID, reducing unauthorized access by 90%.
- Designed and tested a multi-layer authentication prototype for enhanced vehicle security.

### Animal Detection & Monitoring System in Railway Tracks Using Deep Learning (Journal Paper Published)

- Implemented a real-time animal detection system using Python, OpenCV, and a pre-trained YOLO model.
- Achieved 85% detection accuracy, contributing to a 40% reduction in railway track accidents.
- Deployed the solution on edge devices for faster real-time monitoring.

## INTERNSHIP

### Internship at Unotronix, Coimbatore (Dec 10, 2022 – Dec 24, 2022)

- Collaborated on the design and development of 5+ electronic enclosures and cabinets, improving product efficiency by 10%.
- Assisted in optimizing manufacturing processes, reducing production errors by 15%.
- Conducted material research that contributed to a 12% improvement in design innovation and durability.

## CERTIFICATES

- Business English Certificate (BEC): Certified for proficiency in Business English.
- Introduction to Internet of Things (IoT) – NPTEL (Elite + Silver): Achieved certification with top performance.
- Cloud Computing – NPTEL (Elite): Earned certification with high merit.
- MAPATHON 2023: Led the team to success and honored as a Notable Participant (Certificate awarded).

## LEADERSHIP & EXTRA-CURRICULAR ACTIVITIES

- Team Leader in MAPATHON 2023 competition.
- Conducted Technical Events: Organized TECHATHON 2023 and CORNUCOPIA 2024 at college.
- Seminar on Color Grading (DI): Delivered a seminar attended by 100+ participants.
- Promotional Video: Created a promotional video for college outreach and engagement.

## AREAS OF INTEREST

- Software Development
- Web Development
- Full Stack Development