**Sakthivel S**

**PROFILE**

I'm a passionate engineer who wants to work in a demanding and creative atmosphere while contributing towards technology development and innovation.

**EDUCATION**

* **B.Tech.** **Electronics and Communication Engineering**

**CGPA – 8.00 / 10 2019-2023**

Amrita Vishwa Vidyapeetham, Chennai

**PROJECTS**

**Attendance System**

Facial Recongition based Attendance System using OpenCv

**Home Automation**

Home Automation using WiFi Development Board

**Real Time Tracker**

Low Power GPS Tracker using Arduino ESP8266

**Real time Motion tracking system**

Developed using accerlometer in arduino ble 33. [TinyML]

**TECHNICAL INTERESTS**

Hybrid EV

Machine Learning and Image Processing

Internet of Things

**TECHNICAL SKILLS**

C, JAVA, HTML, CSS, Python, MATLAB, CST Studio, Keil v5, Anaconda ,Arduino IDE, LTSpice and OpenCV.

**ACHIEVEMENTS & HONOURS**

* 1st place in paper presentation AIRO conducted by Sri Sai Ram engineering college on 22nd - 23rd October 2021.
* 2 nd place in paper presentation Techninja 2021 international symposium conducted by IEEE sec and Sri Sai Ram engineering college on 1st-3 rd October 2021.
* 1st place in paper presentation Engima conducted by Kongu engineering college on 20th November 2021.
* 2nd place in Ideathon AIRO conducted by Sri Sai Ram engineering college on 22nd - 23rd October 2021.
* 3rd place in Quiz wizard conducted by Sri Sai Ram engineering college on 22nd - 23rd October 2021.

**INTERNSHIP**

**SSN College Of Engineering Research Intern**

* Underwater Noise Analysis and Image Enhancement Funded by Department Of Science and Technology, India.
* Collected samples from various water bodies in Chennai
* Proposed a new algorithm to find the blur parameters in collected samples
* Restoration of the blurred images. Enchancement of restored images.

**Coding Ninjas Teaching Assistant**

* Clarified doubts to students
* Debugged programs
* Helped students in their assignments & projects

**IIT-Indore Research Intern**

* Analyzing Wireless network parameters data. Building a Neural Network Model
* Optimizing the findings in order to minimise the MSE to an acceptable level.

**CERTIFICATIONS**

**Data Structures and Algorithms**, Coding Ninjas

**Embedded Machine Learning,** Coursera

**TensorFlow and Keras,** Deep Lizard

**PUBLICATIONS**

Sakthivel S, Akash Ram R.K, Sidarth Sai B Ganesh Kumar C, “Blur Classification and Estimation of Motion Blur Parameters Using OLR “AICTE Sponsored IEEE International Conference on Electronic Systems and Intelligent Computing((ICESIC-2022) ; doi: 10.1109/ICESIC53714.2022.9783566.

Sakthivel S, Akash Ram R. K, Sidarth Sai B, Vijaya Kesavan K. M and Ganesh Kumar C, "AIoT-based Smart Cart System," 2022 International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), 2022, pp. 1-6, doi: 10.1109/ICSTSN53084.2022.9761346

Sakthivel S, Akash Ram R. K, Sidarth Sai B, Vijaya Kesavan K. M and Ganesh Kumar C, "AIoT-based Smart Cart System," 2022 International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN), 2022, pp. 1-6, doi: 10.1109/ICSTSN53084.2022.9761346

Nikitha Reddy Nalla, S. Sakthivel and Shankar R, "Low Cost VOIP System Incorporation with Raspberry Pi," 2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS), 2022, pp. 94-99, doi: 10.1109/ICICCS53718.2022.9788353.