

SREELEKSHMI SAJU

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[Linkedin](#) [Hackerrank](#)

PROFILE

Motivated Computer Science graduate specializing in Artificial Intelligence and Machine Learning. Proficient in Python, skilled in problem-solving, and experience with real-world datasets. Eager to contribute to collaborative projects and adapt to new technologies.

EDUCATION

- **M.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)** ,
Amrita Vishwa Vidyapeetham, India (CGPA: 7.7) 2022 – 2024
- **Bachelor of Technology in Electrical and Electronics Engineering**,
Amrita Vishwa Vidyapeetham, India (CGPA:6.78) 2017 – 2021
- **Higher Secondary Education**,
Govt Fisheries Higher Secondary School Kuzhithura, India (Percentage:73.58%) 2016 – 2017
- **High School Education**,
Govt. High School Azheekal,India (Percentage:94%) 2014 – 2015

TECHNICAL SKILLS

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|---|---|
| • Python | Artificial Intelligence |
| • HTML, CSS, JavaScript, React JS | • Foundation in data structures and algorithms |
| • microcontrollers, Raspberry Pi, Arduino | • Familiarity with working with large datasets and applying ML/AI algorithms, hands-on IoT applications |
| • Machine Learning, Deep Learning, | |

SOFT SKILLS

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|---|---|
| • Time management, Teamwork, Adaptability | • Self-motivated, Quick learner, analytical Skills |
| • Critical Thinking, Decision Making | • Organized and meticulous, Skilled in multitasking |
| • Communication, Results-Oriented | • Excellent attention to detail, Desire to learn in new areas |

PROJECTS

- **Fetal Heart Ultrasound Image Enhancement and Anatomical Feature Recognition via GAN and Grad CAM.** 2024
 - Enhanced fetal heart structure recognition with a 98.9% accuracy rate through GANs for image enhancement and Grad-CAM for feature visualization, surpassing industry benchmarks.
 - Managed real ultrasound data with complex biological variability.
 - Applied hyperparameter optimization and cluster analysis to fine-tune the model.
- **SMART HOME WITH CONDITION MONITORING.**2021
 - Designed a Smart Home Automation system with real-time condition monitoring for elderly users, enhancing domestic security and convenience.
 - Integrated multi-sensor data for accurate health tracking and developed a user-friendly interface. • Utilized an Arduino controller on the Proteus platform, incorporating sensors and communication modules.
- **Obstacles avoiding robot using Arduino and Bluetooth module.**2019
 - Created a robot with real-time obstacle detection, ensuring precise response and user control. • Optimized sensor sensitivity for accurate motor response and minimal latency. • Utilized Bluetooth for seamless user command execution, achieving consistent sensor-to-motor functionality.

WORK EXPERIENCE

Teaching Assistant / Ai - IoT Lab in Charge

Amrita Vishwa Vidyapeetham

Jan 2022 - Oct 2022

India

- Conducted hands-on sessions in AI and IoT, simplifying complex concepts for over 300 students.
- Improved lab engagement by facilitating practical learning experiences, and collaborated on curriculum development to match industry standards.

INTERNSHIPS

- **Centre for Internet Studies & Artificial Intelligence - CISAI** 2023
- **KERALA STATE ELECTRICITY BOARD LIMIT** 2019
Kayamkulam, India
 - • Gained insights into electrical equipment and its workings. • Acquired knowledge about the transmission, distribution, and generation of electricity. • Learned about various electrical lines and transformers.

CERTIFICATIONS

- [HackerRank Software Engineer Intern Certificate](#)
- [HackerRank Software Engineer Intern Certificate](#)
- [HackerRank Python \(Basic\) Certificate](#)
- [Hackerrank Problem Solving \(Basic\) Certificate](#)
- [Hands-on Internet of Things, Coursera](#)
- [Artificial Intelligence Foundations: Machine Learning, LinkedIn Learning](#)
- [Hackerrank Software Engineer Certificate](#)

COURSES

- Introduction To Python Programming, Udemy
- Coding Essentials - Logic Building, Udemy
- Learn to Program: The Fundamentals, University of Toronto - Coursera
- Computer Science: Programming with a Purpose, Princeton University - Coursera
- [Hands-on Internet of Things, Coursera](#)
- [Algorithms on Graphs, coursera](#)

WORKSHOPS

- **FDP on Recent Trends in Robotics,** Sep 2022
Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, and PDPM IITDM Jabalpur.
- **Rigbetel Lab Robotic Workshop** 2022
- **Arduino And Raspberry Pi, HUT Lab, 2019** 2019
 - Participated in a training program conducted by HUT LAB, Amrita Vishwa Vidyapeetham, focusing on Arduino operation. • Successfully designed a wheeled robot and gained a foundational knowledge of Raspberry Pi

PUBLICATIONS

- [Fetal Heart Ultrasound Image Enhancement and Anatomical Feature Recognition via GAN and Grad CAM, IEEE,2024](#)
- [Smart Home with condition monitoring, Springer,2021](#)

LANGUAGES

- English
- Malayalam