

# SACHU RETNA S M

## AI DEVELOPER

✉ sachuretnasm@gmail.com    ☎ 8113820058    📍 Trivandrum

## PROFILE

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Delivered training in Python, Data Science, Machine Learning, Deep Learning, and Robotics. Designed and updated course content for AI, Data Science, and Robotics programs in collaboration with the Cysonet Technologies. Built hands-on modules involving computer vision, IoT, and embedded systems. Mentored students through labs, coding exercises, and real-world projects while supporting evaluations and project reviews

## PROFESSIONAL EXPERIENCE

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### Academic Executive

CYSONET TECHNOLOGIES

10/2023 – Present  
trivandrum

- Conducted training programs on Python, Data Science, Machine Learning, Deep Learning, and Robotics.
- Delivered classroom and lab-based sessions for students and trainees.
- Designed, developed, and updated course content and syllabus for AI, Data Science, and Robotics programs.
- Created hands-on project modules using computer vision, IoT, embedded systems, and microcontrollers.
- Guided students through practical exercises, coding tasks, and end-to-end project development.
- Performed student evaluations, project reviews, assessments, and provided technical mentoring.
- Assisted in organizing workshops, seminars, and technical awareness programs.
- Prepared teaching materials, presentations, and documentation for training delivery.

## SKILLS

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### Data Science & Machine Learning

- Data Cleaning, Feature Engineering, Exploratory Data Analysis
- Supervised & Unsupervised Learning
- Deep Learning (CNN, RNN, MobileNet)
- Model Training & Evaluation
- NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras

### Programming

Python, C

### AI & Deep Learning

- Computer Vision (image classification, object detection, mobile deployment)
- Edge AI / TinyML (ESP32, ESP8266, Raspberry Pi)
- ONNX, TensorFlow Lite, real-time inference on microcontrollers

### Robotics & Embedded Systems

- ESP32, ESP8266, Arduino, Raspberry Pi
- Sensors & Modules: MPU6050, DHT11, RC522 RFID, PN532, ADS1115
- Motor control (servo, DC motor, BLDC motor)
- IoT-based robotics projects
- Wokwi simulation

### Tools

- Git/GitHub
- VS Code, Arduino IDE, Thonny
- OpenCV, MediaPipe
- Excel (Data analysis), PowerPoint

## CERTIFICATES

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**DATA SCIENCE AND AI**  
KELTRON KNOWLEDGE CENTER

**INTERNSHIP**  
KERALA AUTOMOBILES  
LIMITED

**AUTOCAD MECHANICAL**  
GMDS

## PROJECTS

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Wheat\_leaves\_diseases\_prediction\_using\_yolo8n [↗](#)

Face\_mask\_detection\_uisng\_mobilenet\_model [↗](#)

Hand\_Gesture\_Control\_Robot [↗](#)

## EDUCATION

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<b>B.TECH</b> <i>College of Engineering Muttathara</i> MECHANICAL ENGINEERING	2017 – 2021 TRIVANDRUM
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<b>HSS</b> <i>St.Mary's HSS Pattom</i> SCIENCE(BIO MATHS)	2017
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<b>SSLC</b> <i>St.Mary's HSS Pattom</i> STATE LEVEL	2015
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## LANGUAGES

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ENGLISH	● ● ● ● ●	MALAYALAM	● ● ● ● ●
TAMIL	● ● ● ● ●	HINDI	● ● ● ● ●

## DECLARATION

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I hereby declare that all the information provided in this resume is true, complete, and accurate to the best of my knowledge and belief. I affirm that the details mentioned regarding my education, experience, skills, and accomplishments are genuine and reflect my actual background. I understand that any misrepresentation or omission of facts may lead to disqualification from the recruitment process or termination of employment at any stage. I take full responsibility for the correctness and authenticity of the information provided and shall be ready to present supporting documents whenever required by the organization

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