

SACHU RETNA S M

AI DEVELOPER

✉ sachuretnasm@gmail.com ☎ 8113820058 ⬇ Trivandrum

PROFILE

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

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

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

DATA SCIENCE AND AI
KELTRON KNOWLEDGE CENTER

INTERNSHIP
KERALA AUTOMOBILES
LIMITED

AUTOCAD MECHANICAL
GMDS

PROJECTS

Wheat_leaves_diseases_prediction_using_yolo8n ↗

Face_mask_detection_uisng_mobilenet_model ↗

Hand_Gesture_Control_Robot ↗

EDUCATION

B.TECH

College of Engineering Muttathara
MECHANICAL ENGINEERING

2017 – 2021

TRIVANDRUM

HSS

St.Mary's HSS Pattom
SCIENCE(BIO MATHS)

2017

SSLC

St.Mary's HSS Pattom
STATE LEVEL

2015

LANGUAGES

ENGLISH



MALAYALAM



TAMIL



HINDI



DECLARATION

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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