






# Saurabh Raj

 Dona Paula ,Goa ,India    saurabhrajsaran1@gmail.com    +918789603798  
 <https://www.linkedin.com/in/saurabh-raj-35022a193/>    <https://github.com/Saurabhrajsaran1>

## SUMMARY

Motivated and detail-oriented M.Tech Computer Science Engineering (CSE) 2nd-year student at Pondicherry University with a strong foundation in software development and research. Currently undertaking a dissertation at CSIR-NIO Goa, focusing on marine instrumentation. Skilled in designing virtual replicas and programming sensors using Arduino, with a keen interest in applying advanced technologies to solve real-world problems. Looking to leverage my technical expertise and research experience in innovative projects.

## EXPERIENCE

MERN Stack Intern  
Adyan Solutions  
Dec 2022 – Aug 2023

- Developed full-stack web applications using MongoDB, Express.js, React.js, and Node.js.
- Created dynamic and responsive user interfaces with React.js.
- Built and optimized RESTful APIs for seamless frontend-backend communication.

## PROJECT

Dissertation: Marine Instrumentation  
CSIR-National Institute of Oceanography, Goa  
July 2024 – Present

- Designed and developed a virtual replica of a turtle for marine studies using simulation tools.
- Programmed and integrated sensors using Arduino to collect and analyze environmental data.
- Conducted experiments to validate sensor performance and data accuracy.
- Collaborated with experts in marine instrumentation to enhance system functionality.

## EDUCATION

### **M.Tech**

Computer Science & Engineering • Pondicherry University • Pondicherry • 2025

### **B.Tech**

Computer Science & Engineering • Axis Institute of Technology & Management • Kanpur • 2022

**8.05 CGPA**

## CERTIFICATIONS

### **International Conference on Emerging Trends in Cybersecurity and Artificial Intelligence with Internet of Things (ICETCAI-2024)**

Department of Computer Science and Information Technology, KL University, • Aug 2024.

### **Remote Sensing and Digital Image Analysis**

Indian Institute of Remote Sensing, Dehradun, • Aug-Sept 2024.

### **Geodata Processing using Python**

Indian Institute of Remote Sensing, Dehradun, • Jan 2024.

### **Web Development Intern**

Null Class • 2022

### **C,C++ Programming**

Educonf Technologies Pvt. Ltd., • July 2029

## SKILLS

- Machine Learning/AI: Scikit-learn, Weka, TensorFlow, PyTorch
- Frontend: React, Redux, HTML, CSS, JavaScript
- Backend: Node.js, Express.js
- Database: MongoDB, MySQL
- Version Control: Git