

Sachin Sundar S

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CAREER OBJECTIVE

To build a successful career in the technology field by applying my skills in programming, problem-solving, software development, and data-driven projects to contribute effectively to organizational growth and innovation.

EDUCATION

- K.S.Rangasamy College of Technology, Tiruchengode** Tamil Nadu, IN
B.E. in Artificial Intelligence and Machine Learning; CGPA: 7.92 Aug 2022 – May 2026
- Government Boys Higher Secondary School, Bhavani** Tamil Nadu, IN
HSC; Percentage: 79.3 Jun 2021 – May 2022
- Government Boys Higher Secondary School, Komarapalayam** Tamil Nadu, IN
SSLC; Percentage: 74.4 Jun 2019 – May 2020

PROJECTS

- AI-Based Real-Time Animal Detection and Alert System:**
Built a YOLOv8 and OpenCV computer vision system achieving 90% detection accuracy with low-latency video inference; integrated Twilio API for GPS-based real-time alerts to enable automated wildlife monitoring and safety notifications.
- Early Detection of Alzheimer Using Blood-Based Plasma Proteins with ML Models:**
Designed a hybrid machine learning pipeline combining 1D-CNN and XGBoost to classify Alzheimer's disease stages using blood-based biomarkers such as A42, Tau, pTau, and ApoE. Built an end-to-end workflow including data preprocessing, model training, evaluation, Flask-based deployment, and automated PDF report generation for non-invasive early diagnosis support.
- RetailPulse — Track Sales. Control Stock. Grow Profit. :**
Built a full-stack retail management system featuring role-based access control, authentication, real-time inventory tracking, refund workflows, and immutable audit logs. Developed RESTful APIs using Node.js and Express, integrated MongoDB for data persistence, and deployed the application using Vercel and Render with emphasis on security, scalability, and maintainability.

EXPERIENCE

- Internship – CubeAI Solutions Pvt. Ltd. (March 2025 – April 2025):**
Contributed to development and testing of an autonomous drone system by assembling and calibrating UAV hardware for flight stability. Configured waypoint missions using Mission Planner and validated long-range navigation and hardware integration.

CERTIFICATIONS

- Professional Certifications:**
 - Data Science and Machine Learning (GUVI-HCL Group)
 - Getting Started with Git and GitHub (Coursera)
 - Python for Data Science (NPTEL)

TECHNICAL SKILLS & AREA OF INTEREST

- Programming Languages :** Java, Python, JavaScript, HTML, CSS
- Frameworks , Libraries & Runtime:** React.js, Express.js, Flask, Node.js, OpenCV, YOLOv8, Pandas, NumPy, XGBoost
- Databases:** MySQL, MongoDB
- Tools & Technologies :** Git, GitHub, Tableau, Mission Planner, AutoCAD
- Other Technical Skills :** Drone Assembly, UAV Flight Operations
- Software Engineering Concepts & Interests :** OOPs, SDLC, Debugging, Problem Solving, DSA(Java), Machine Learning

ACHIEVEMENTS

- Received Outstanding Contribution Award during internship at CubeAI Solutions.
- Participated in CMR Hackfest 2.0, a 36-hour national-level hackathon.
- Solved 100+ coding problems on LeetCode.
- Achieved distinction in Typewriting (English & Tamil).