

Sachin Sundar S

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CAREER OBJECTIVE

To build a successful career by continuously learning, enhancing skills, applying knowledge effectively, and contributing to the organization's growth and success.

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:**
Developed an AI system for real-time animal detection and alerting using YOLOv8, OpenCV, and Twilio API. Enabled automated wildlife monitoring by sending instant GPS-based alerts and visualizing detections for enhanced safety and awareness.
 - **Early Detection of Alzheimer Using Blood-Based Plasma Proteins with ML Models:**
Developed a hybrid 1D-CNN and XGBoost ensemble model to classify Alzheimer's stages using blood-based biomarkers (A42, Tau, pTau, ApoE). Built an end-to-end ML pipeline with data preprocessing, model training, Flask deployment, and automated PDF report generation for non-invasive early diagnosis management.
 - **AI-Driven Retail Sales Forecasting using Time Series Analysis:**
Developed a robust End-to-End Data Science Pipeline for predicting weekly retail sales demand. The system leveraged Pandas for data aggregation, applied feature engineering, and compared ARIMA, Prophet, and LSTM (TensorFlow/Keras) models, achieving superior forecasting accuracy for inventory optimization.

EXPERIENCE

- **Internship – CubeAI Solutions Pvt. Ltd. (Feb 2025 – Mar 2025):**
Contributed to the development and testing of an **Autonomous Drone**, assembling and calibrating hardware for improved flight stability and configuring autonomous waypoint missions for reliable long-range navigation.

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 AND AREA OF INTEREST

- **Programming Languages:** Java, Python, HTML, CSS, JavaScript
 - **Frameworks & Libraries:** React.js, YOLOv8, OpenCV, Pandas, Numpy, Matplotlib, Flask, TensorFlow, Scikit-learn, XGBoost
 - **Databases:** MySQL
 - **Tools & Platforms:** Git, GitHub, Mission Planner, Tableau, Canva
 - **Other Skills:** Drone Assembly, UAV Flight Operations, AutoCAD, Typewriting
 - **Area of Interest:** Problem Solving, Data Structures and Algorithms(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).