RESUME

NAME   SUDAR MANIKANDAN S
DEGREE   B-TECH IT
DOB   11.06.2005
EMAIL   sudarsettaiyan@gmail.com
GITHUB   https://github.com/SUDAR2005
LINKEDIN   https://www.linkedin.com/in/sudar-manikandan-s-770835274

PROFESSIONAL OBJECTIVE

B. Tech IT student with a strong passion for technology and competitive programming, offering hands-on experience in application development. Demonstrated ability to integrate machine learning algorithms with technologies to create efficient, data-driven solutions. Committed to leveraging innovative thinking to significantly contribute to organizational success.

ACADEMIC PROFILE

Class/Course	Name of the Institution	Board of Study	Year of passing	Marks % / CGPA
B. Tech (IT)	Thiagarajar College of Engineering, Madurai	Anna University	2026	8. 61*
X	The Hope Matric Hr. Sec School Cheranmahadevi	State Board	2020	98.8%
XII	The Hope Matric Hr. Sec School Cheranmahadevi	State Board	2022	94.83%

*CGPA (out of 10) up to 5th Semester

TECHNICAL EXPERTISE

Primary Skills	: Programming.
Programming Languages	: C++, Java and Python.
Web Development	: Full Stack Web Development.
Database	: Oracle SQL, MongoDB.
Operating Systems	: Linux, Windows.
Cloud	: Amazon Web Service.

AREA OF INTEREST

- Artificial Intelligence and Machine Learning.
- Problem Solving.
- Data Structures and Algorithms.
- Object Oriented Programming.

PERSONAL QUALITIES

- Leadership.
- Communication.
- Team Work.
- Forward Thinking.

ACHIEVEMENTS

- Runner Up at '**Clash of Minds**' a debate competition organized by **Anurag University IUCEE Student chapter** on **Artificial Intelligence**.
- Our Project '**Cardio Vascular Disease prediction using Deep Learning**' has been ranked under top **3 among 30** other projects and presented in the **Demo Day** at TCE.
- Our project '**Cloud Burst Prediction Application**' was selected for the **final round** of **IETSC's** flag Ship event **Sustainable Technovation Expo 2024**.
- Our Li-Fi based communication System was selected for **final round** of '**Pragyan – Ingenium**' a **National Level hackathon** happened at **NIT Trichy**.
- Selected from the regional round and attended the 36 Hour hackathon '**Hackfest**' organized at **PSG iTech** by **SAP** and **KARL Solutions**.
- **Finalist** at **Industry AI Hackathon'25** a part of Shashtra 2025 organized by IIT Madras.
- **Published** a paper titled **Enhancing Early Heart Disease Detection: Comparing CNN, RNN, and Hybrid CNN-RNN Models for Improved Diagnostic Accuracy** at Anadolu Psikiyatri Dergisi **a Scopus indexed journal**

POSITIONS HELD

- Chief General Secretary, TCE Coders' Club.
- Technical Team Co-Lead at IUCEE EWB TCE Student Chapter [2023-2024]
- Campus Ambassador and Branding Head at IUCEE EWB TCE Student Chapter [2024-present].
- Placement Representative TCE IT.
- Active NSS volunteer.

ACADEMIC PROJECTS

TITLE	Adaptive Cyber Deception Strategy using Meta-Heuristic Algorithms*	
STACK	Python, SDN(Mininet), Elasticsearch, Logstash, Kibana, Shell Scripting, WireShark	TEAM SIZE – 3

Developing a dynamic cyber defense system that uses metaheuristic algorithms to optimize honeypot placement in a software-defined network (Mininet). Integrated real-time threat analysis and visualization using the ELK stack. The system intelligently deceives attackers, collects forensic data, and enhances network security by adapting to evolving threat landscapes.

TITLE	CARDIOPREDICTOR – AN AI BASED CARDIOVASCULAR DISEASE PREDICTOR	
STACK	DEEP LEARNING, VANILA JS, FLASK, PYTHON	TEAM SIZE – 4

Developed a web application using Flask for cardiovascular disease prediction from ECG images, utilizing a pre-trained hybrid CNN-RNN model. Implemented image upload with Flask-WTF and a real-time classification API crafted by us.

TITLE	CLOUDBURST PREDICTION SYSTEM	
STACK	MACHINE LEARNING, FLASK, VANILA JS	TEAM SIZE – 4

Developed a weather alert web application using Flask and Vanilla JS, integrating crafted API for cloudburst prediction. Connected with real-time weather services like OpenWeatherMap for accurate and cost-effective forecasting based on temperature, wind speed, pressure, and humidity data.

TITLE	YOU ARE ABOUT TO BE PHISHED!	
STACK	REACT, FLASK, MACHINE LEARNING	TEAM SIZE – 3

Developed a Chrome Extension to detect phishing sites based on URL characteristics using an GRU-RNN. Built a Flask API to connect with the model and utilized Chrome's API to monitor tab activity, blocking users from accessing sites resembling phishing sites.

* project in progress as of March 2025

CO-CURRICULAR ACTIVITIES

o **Published** a paper titled **Enhancing Early Heart Disease Detection: Comparing CNN, RNN, and Hybrid CNN-RNN Models for Improved Diagnostic Accuracy** at Anadolu Psikiyatri Dergisi **a Scopus indexed journal**
o Completed **Cloud Architect** certification offered by **Amazon Academy**.
o Completed **Docker** certificate course offered by **Kodekloud.**
o Completed **Fraud Detection on Financial Transactions with Machine Learning on Google Cloud** from **Google Cloud**
o Completed **Cybersecurity Essentials** from **Cisco Networking Academy.**

INTERNSHIP DETAILS

Name of the Institution / Industry	Duration	Area of Exposure
Pivotal Research	4 weeks	Generative AI, AWS and REST API

EXTRA CURRICULAR ACTIVITIES

- Participated in an **Intra college NSS camp** held at **Sambakulam & Soorakulam** and took an active role in coordinating activities like a **Blood Donation Camp [BDC], Rally** as a part of the NSS.
- Involved in **Peer Coaching** for Juniors and fellow lateral entry students.
- Worked as a part of team that organized **Sustainable Technovation Expo – 2024**, flagship event Organized by IETSC.
- Organized **Tech Talk** on topics like Ruby on Rails, **LLM** at department level.
- Designed and organized an interactive and fun oriented **Machine learning based play zone** called '**Find Your Pokémon**' to interact with participants of **Techutsav'24**
- Organized various contest related as a part of TCE Coders Club.

PERSONAL DETAILS

PERMANENT ADDRESS:

26, KOTTAI YADHAVAR MAIN STREET KALAKAD, NANGUNERI TALUK,
TIRUNELVELI – 627 501,
PH. 6381390829, 948620529

DATE OF BIRTH	: 11.06.2005
AGE	: 19
SEX	: MALE
FATHER'S NAME	: SETTAIYAN S
MOTHER TONGUE	: TAMIL
LANGUAGES KNOWN	

LANGUAGE	READ	WRITE	SPEAK
TAMIL	✓	✓	✓
ENGLISH	✓	✓	✓

DECLARATION

I, **SUDAR MANIKANDAN S**, do hereby confirm that the information given above is true to the best of my knowledge.

Sudar ManiKandan

Date: 13.03.2025   SIGNATURE:
Place: Madurai   (**SUDAR MANIKANDAN S**)