

# Sathya .T

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## EDUCATION

**Kalaignar Karunanidhi Institute of Technology, India** **Current CGPA : 6.7/10.0** 2023 – 2027  
B.E. CSE (Artificial Intelligence & Machine Learning), Pre-Final year  
**Coursework:** Machine Learning, Operating Systems, Computer Networks, DSA, DL, DBMS, AI, and OOPS.

## EXPERIENCE

**Machine Learning Training** | EtherInfotech – Coimbatore, India (offline) Sept - Oct 2024

- Completed structured training in **Machine Learning**, covering supervised & unsupervised algorithms.
- Learned data preprocessing, feature engineering, and model evaluation techniques.
- Worked with **Python, NumPy, Pandas, Scikit-learn**, and **Matplotlib** for hands-on ML tasks.
- Built small **ML projects** as part of the curriculum, including regression and classification models.

**Full Stack Development Training** | Learnlogicify – Coimbatore, India (offline) May - June 2025

- Completed hands-on training in **HTML, CSS, JavaScript**, and fundamentals of backend development.
- Built **responsive** web pages and mini web applications following modern UI/UX practices.
- Learned basic API development, database concepts, and deployment workflow.

## PROJECTS

**Smart Parking System** | IoT, Sensors, ESP32, MQTT, Cloud Sept 2025

- Built an ML-powered **Flask app** that predicts **wine quality** using the UCI red wine dataset.
- Designed a clean, responsive UI with HTML, CSS, and JS for real-time predictions.
- Added SQLite history tracking to store and view past prediction results.

**Car Model & Brand Verification System** | Python, Deep Learning, DNN, OpenCV Nov 2025

- Built a Deep Neural Network to identify and verify car models and brands from images using computer vision techniques.
- Applied image preprocessing, feature extraction, and normalization to improve classification accuracy.
- Evaluated model performance using accuracy metrics and optimized the network for reliable vehicle recognition

**AI-Based Underwater Image Enhancement System** | Python, Deep Learning, CNN, Image Processing Jun 2025

- Developed a full-stack fitness website featuring **training, guiding, store** to purchase and **customer interaction** pages.
- Built responsive frontend interfaces and connected them to backend APIs for dynamic content handling.
- Integrated database operations to manage user data, store items, booking and user submission efficiently.

## TECHNICAL SKILLS

C	DSA	Javascript	Git	SQLite
Python	OOPS	Node.js	Github	MongoDB
Java	SQL	React.js	VS Code	Jupyter

## CERTIFICATIONS & COURSES

CISCO : Introduction to Cyber Security	2025
Juniper : MistAi,Associate(JNCIA MistAI)	2024
Coursera : Introduction to Ai	2024
Coursera : Introduction to Ml	2025
Infosys : Foundation Of Python	2025

## COMPETITIVE PROGRAMMING

**Leetcode** : Max rating - **1542** | Solved problems: **200+** | Top **36.22%** globally | Badges : **3** |  
**Codeforces** : Max rating - **1102** | Position: Newbie | Solved problems: **10+** |  
**Codechef** : Max rating - **1220** | Position : **2** Star | Problems solved : **150+** | Global Rank : **15421** |  
**Github** : **100+** Contribution | **100+** Contests Attended & **1000+** Problems solved in various platforms |

## ACHIEVEMENTS

- Participated in ICCSS 2025 conference held at Rathinam College of Engineering and presented the research paper title “IoT Fire Detection in Fire Cracker Industry.” 2025
- Secured Top 50 in intercollege 24hrs Hackathon at KIT.
- Participated in 36 Hrs Hackathon Coimbatore
- Solved 500+ problems in Leetcode,codechef,geeks for geeks

## VOLUNTEERING

- Coordinated an event during the College Technical Symposium, Facilitating seamless implementation of the participants
- Delivered an IoT project demonstration to juniors as part of the college IoT Expo event.