Sanjay Muruganandam

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Education

SASTRA University, Tanjore   2022–2026
Bachelor of Technology in Computer Science & Engineering
Minor Specialization in Robotics & Automation
Currently Pursuing Hons. Degree
CGPA: 8.5475

Blossom Public School, Tanjore   2015–2022
Higher Secondary Education
Grade X: 93.2% — Grade XII: 93.4%

Certifications & Projects

Online Certifications:

- Elite certificate on Google Cloud Computing Foundations (IIT Kharagpur)   *Aug–Oct 2023*
- Elite certificate on Introduction to Machine Learning (IIT Madras)   *Jul–Oct 2024*
- Elite certificate on Privacy and Security in Online Social Media (IIIT Hyderabad)   *Jan–Apr 2025*

Workshops: Attended Summer Workshop on Digital Image Processing (2024), SASTRA University

Projects:

- **Smart Water Management System (Cloud + IoT)**   GitHub Repo
    - Implemented an Industry 4.0-ready smart home solution for efficient water usage.
    - Utilized infrasonic sensors and Wi-Fi modules to collect real-time data.
    - Enabled live monitoring and automation using Blynk Cloud visualization.
- **Heart Disease Prediction using Hybrid ML + Metaheuristics**   GitHub Repo
    - Applied 5 ML models: RFC, LRC, DTC, XGBC, KNNC to medical datasets.
    - Integrated 4 optimization algorithms: Pathfinder, Giant Armadillo, Forest Optimization, Slime Mould Algorithm.
    - Constructed hybrid models to improve diagnostic accuracy.
- **Movie Recommendation Chatbot using NLP**   GitHub Repo
    - Developed a Python chatbot recommending films based on user input.
    - Employed TF-IDF vectorization, cosine similarity scores, and fuzzy string matching (fuzzywuzzy).
    - Supported filtering by genre, decade, director, and actor.

Skills

- **Programming:** C, C++, Java, Python
- **Tools:** Git, Arduino UNO
- **DB:** MySQL, MongoDB
- **Web:** HTML, CSS, JS, Django, AJAX
- **Cloud:** Google Cloud, Blynk
- **AI/ML:** NLP, Scikit-learn
- **OS:** Windows, Ubuntu
- **Concepts:** DSA, OOP, TOC, OS, CN, DIP

Languages

English: Fluent   •   Tamil: Fluent