Sanjay Muruganandam

+91-7094311825 — sanjay10mcm@gmail.com — 126003230@sastra.ac.in

linkedin.com/in/sanjay-m010 — github.com/sanjay1046

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