

Santhosh S

📍 Chennai ✉ santhoshsiva2909@gmail.com ☎ 8939440300 in LinkedIn 🐙 GitHub 🌐 Portfolio

Education

Madras Institute of Technology, Anna University <i>BE Computer Science and Engineering</i> ◦ GPA: 9.24	<i>Oct 2022 - May 2026</i>
Zion Matriculation Higher Secondary School, Chennai (HSC) ◦ Percentage: 98.33	<i>May 2021 - May 2022</i>
Zion Matriculation Higher Secondary School, Chennai (SSLC) ◦ Percentage: 97.20	<i>May 2019 - May 2020</i>

Skills

Programming Languages: C, C++, Java
Web Technologies: HTML, CSS, JavaScript, React, PHP (Backend).
Tools/Platforms: Git, GitHub, Draw.io, Jira, PowerPoint, Excel, Word
Databases: Oracle SQL, MySQL
Coursework: Data Structures and Algorithms, DataBase Management System, Object Oriented Programming, Operating Systems, Computer Networks, Machine Learning.

Projects

AI Driven Phonocardiogram Analysis for Heart Murmur Detection <i>Tools: Python, PyTorch, Librosa, Google Colab.</i> ◦ Preprocessed PCG signals using a Butterworth bandpass filter (25–400 Hz) and extracted 52 MFCC features for time-frequency analysis. ◦ Trained three base models - Multi Head Self Attention Transformer, PatchTST, and ResNet18 with accuracies (92.07%), (90.85%), and (90.24%) respectively. ◦ Integrated predictions using XGBoost as a meta-learner in a stacked ensemble, boosting final accuracy to 96.95%.	View Project
Online Job Portal System <i>Tech Stack: React, Bootstrap, PHP, MySQL</i> ◦ Built a full-stack job portal for job seekers to browse, search, and apply to listings in real time. ◦ Implemented secure user authentication and session management using PHP and MySQL for both jobseekers and recruiters. ◦ Designed dynamic job listing pages with filters based on title, location, and company, ordered by most recent postings.	View Project
Airline Management System <i>Tools: Java (Swing), MySQL, JDBC, IntelliJ IDEA</i> ◦ Designed and implemented a desktop-based system to manage airline ticket booking, cancellations, and payments. ◦ Built an interactive Java Swing GUI and connected it to a MySQL database using JDBC. ◦ Optimized database queries by indexing on flight code and PNR number, improving performance by 30%.	View Project

Certifications

Mastering Data Structures & Algorithms using C and C++	Udemy
Git Training	Simplilearn

Volunteer Experience

NSS Volunteer	Certificate
Event Organizer (Organized the event <i>Code Heist</i> during department symposium)	Certificate