

SANJITHA R

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OBJECTIVE

A passionate learner and developer aiming to strengthen my foundations in AI, software development, and innovation while contributing meaningfully to impactful projects

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science

Current

SRM TRP Engineering College,Tiruchirappalli.

CGPA upto 3rd semister :8.14

HSC, Class XII

2023 - 2024

St joseph matic hr sec school

Percentage: 82.5

SSLC, Class X

2021 - 2022

Lady of Lourdes girls hr sec school

Percentage: 82

SKILLS

Java Beginner

C++ Intermediate

Python Intermediate

HTML Beginner

CSS Intermediate

Javascript Beginner

SQL Intermediate

PROJECTS AND EXPERIENCE

Developed a Li-Fi based secure vehicle authentication model using **Arduino UNO**, **laser diodes**, and **solar panel receivers**. Explored military, transportation, and high-security applications using Li-Fi.

Designed a **mobile-based attendance system** using on-device AI. (SIH 2025). Used **FaceNet (TF Lite)** to generate embeddings and perform offline verification. Built pipeline using **ML Kit**, **Flutter**, **SQLite**, and **Cosine Similarity**.

EXTRA-CURRICULAR ACTIVITIES

TECHUTSAV'25 – PANORAMA

March 2025

Organized by Thiagarajar College of Engineering, Madurai

- **1st Runner up (2 events)**
- Participated in TECHUTSAV'25 – PANORAMA and secured second prizes in “**No Way Out**” (cybersecurity-based detective event involving encryption and digital clues) and “**Irungbhai**” (creative, quick-thinking movie-based event), gaining experience in problem-solving, creativity, and teamwork.

TechFlare 2k25 – Prompt Engineering Competition

August 2025

Dhanalakshmi Srinivasan University, Tiruchirappalli

- **Winner**

- Collaborated in a two-member team to solve Generative AI prompt engineering challenges at TechFlare 2k25. Designed effective prompts to improve AI accuracy and reasoning. Gained hands-on experience in prompt structuring, teamwork, and real-world AI problem solving.

Medazrt 2025 (Li-Fi Research Presentation)

SRM Valliammai Engineering College, Chennai

October 2025

Second Runner-up

- Presented a project on *Li-Fi Based Vehicle Authentication*, demonstrating encrypted optical communication and Arduino-based prototyping. Reviewed by experts during the event.