

SWETHA THAMPI M

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Education

Vellore Institute of Technology, Bhopal , Integrated M.Tech in Artificial Intelligence	Sept 2022 – May 2027
• GPA: 8.31/10	
Govt.HSS Balaramapuram, Trivandrum, Kerala, XII	June 2021 – May 2022
• Perc: 97%	
St.Chrysostoms GHSS, Trivandrum, Kerala, X	June 2019 – May 2020
• Perc: 98%	

Technical skills

Languages: C++, Python, SQL, JavaScript

Web Frameworks: Django, Django REST Framework, REST APIs

Databases: MySQL

Tools: Git, GitHub

Projects

Intrusion Detection using Machine Learning Algorithms	June 2023 – Oct 2023
• Developed a model to detect various network attacks using RNNs	
• Enhanced intrusion detection accuracy by training and optimizing the RNN model on NSL-KDD dataset	
• Researched and compared the effectiveness of different machine learning paradigms in detecting novel and known network attacks, documenting findings and recommendations	
Advanced Child Immunization management system	July 2024 – Apr 2025
• Designed and implemented a user friendly interface for managing patients and vaccine information	
• Implemented RESTful APIs using Django REST Framework for mobile app integration, enabling real-time access to immunization records and dosage reminders	
• Integrated third-party APIs for SMS/email notifications to ensure timely vaccination reminders and follow-ups	
Job Portal Application (MERN Stack)	Oct 2025 – Dec 2025
• Developed a RESTful backend API using Express.js and Node.js, implementing authentication, job CRUD operations, and application tracking with MongoDB	
• Created modular backend architecture with controllers, models, and middleware for maintainable and scalable system design	
• Implemented REST API endpoints for frontend integration, supporting full job posting, searching, and application workflows	

Certifications

IBM AI Professional Certification - Courseera	Dec 2023
SQL(Advanced) Certificate – HackerRank	Dec 2024
Career Essentials in Data Analysis by Microsoft and LinkedIn	July 2025

Extracurricular Activities

Served as a core member of the Event Management Team within the IoT Club at VIT Bhopal, contributing to the planning and execution of workshops, hackathons, and tech events that increased campus engagement and participation.