

SWETHA THAMPI M

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Education

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| 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

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| Intrusion Detection using Machine Learning Algorithms | June 2023 – Oct 2023 |
| <ul style="list-style-type: none">Developed a model to detect various network attacks using RNNsEnhanced intrusion detection accuracy by training and optimizing the RNN model on NSL-KDD datasetResearched 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 |
| <ul style="list-style-type: none">Designed and implemented a user friendly interface for managing patients and vaccine informationImplemented RESTful APIs using Django REST Framework for mobile app integration, enabling real-time access to immunization records and dosage remindersIntegrated third-party APIs for SMS/email notifications to ensure timely vaccination reminders and follow-ups | |
| Job Portal Application (MERN Stack) | Oct 2025 – Dec 2025 |
| <ul style="list-style-type: none">Developed a RESTful backend API using Express.js and Node.js, implementing authentication, job CRUD operations, and application tracking with MongoDBCreated modular backend architecture with controllers, models, and middleware for maintainable and scalable system designImplemented REST API endpoints for frontend integration, supporting full job posting, searching, and application workflows | |

Certifications

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| 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.