

SACHIN

Second Year Undergraduate
Computer Science and Engineering (CPS)
Vellore Institute of Technology , Chennai

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EDUCATIONAL QUALIFICATIONS

Vellore Institute of Technology (VIT), Chennai <i>Bachelor of Technology in Computer Science Engineering (CPS), CGPA: 8.74(Third Semester)</i> Chinmaya Vidyalaya ,Rajapalayam <i>Higher Secondary Education, Percentage: 91.3</i>	Tamil Nadu, India August 2023 - July 2027 Tamil Nadu, India July 2023
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SKILLS

- Programming Languages:** C, C++, Python, Java, Dart
 - Frameworks & Tools:** Flutter, React*, HTML, CSS, JavaScript, Git, Bootstrap, Flask, Bash
 - SQL & Databases :** SQL Plus, SQLite, SQLAlchemy, PostgreSQL
 - Machine Learning:** NumPy, pandas, Matplotlib, Tensorflow*, Scikit learn
- *Basic Level

WORK EXPERIENCE

Trainee, SpectoV <i>AI ML Trainee</i>	SpectoV, India September 2024 - October 2024
<ul style="list-style-type: none">Developed an AI-driven system for real-time object detection in videos, enhancing accuracy and performance.Created a Flask-based web app for video uploads, object detection, and automated result processing.Developing LinkedIn recruitment automation using Selenium and resume analysis tools.	
Summer Intern <i>Research & Development Intern</i>	VIT Chennai, India May 2024 - July 2024
<ul style="list-style-type: none">Led the development of a secure data-sharing system for smart city services, enhancing data privacy and security.Built a Flask-based web application that streamlined data exchange processes, reducing system integration time by 30%.Established REST APIs, improving communication efficiency between services and decreasing latency by 25%.	
Research Intern, Isaca Chennai Chapter <i>IoT Security Researcher</i>	Remote Chennai, India January 2024 - April 2024
<ul style="list-style-type: none">Researched Internet of Things (IoT) security challenges and evaluated security protocols for 100+ IoT devices.Formulated recommendations to enhance IoT security and presented findings to academic and professional audiences.	

PROJECTS

Narratives in Motion (In Progress) <i>Personal project, Python, Flask, PostgreSQL, NLP (spaCy, NLTK),Perplexity API , TensorFlow.</i>	VIT Chennai, India February 2025
<ul style="list-style-type: none">Building an AI-driven platform where storytellers post serialized stories with AI-generated branching based on engagement.Developing an NLP system to analyze comments and generate dynamic plot twists, enhancing reader engagement.Optimizing AI-driven content generation to accelerate story progression and boost interaction.	
Assured Contract Farming System/Website <i>VITSIH Hackathon 2024, HTML, CSS, JavaScript, Flask, PostgreSQL, Bootstrap</i>	VIT Chennai, India October 2024
<ul style="list-style-type: none">Engineered digital marketplace with real-time bidding, increasing farmers' income by 30%.Implemented price negotiation and escrow payments, reducing financial risk by 40% along with digital contracts.Enhanced operational efficiency by 25% through automated alerts and seamless transactions.	
Linear & Logistic Regression from Scratch <i>Personal Project, Python, NumPy (for basic operations only)</i>	VIT Chennai, India December 2024
<ul style="list-style-type: none">Implemented Linear and Logistic Regression without ML libraries, building models from first principles.Designed custom gradient descent and optimization algorithms, improving training efficiency.Validated models on real datasets, achieving accurate predictions through manual feature scaling and loss function optimization.	

ACHIEVEMENTS

<ul style="list-style-type: none">Contributed to a book chapter on "Critical Infrastructure Protection: Difficulties with Cyber-Physical System Stability, Security, Privacy, and Forensics," scheduled for publication in 2025.Top 120 out of 540 teams at VITSIH Hackathon 2024 with the Assured Contract Farming System.1st prize in Quality Week 2024 Project Expo for Sustainable Models/Prototypes for Future Smart Cities.Best Paper Award for AI-Powered Traffic Signals and Street Lights' at International SCES 2024.1st place in App Marvel, an intra-college hackathon at TechnoVIT'23.	2025 September, 2024 March, 2024 February, 2024 October, 2023
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COURSES AND CERTIFICATIONS

<ul style="list-style-type: none">Supervised Machine Learning: By Stanford Online & DeepLearning AIGoldman Sachs Software Engineering Virtual Experience Program on ForageMicrosoft Azure AI FundamentalsFundamentals of Java Programming: By Board Infinity100 Days of Code: The Complete Python Pro Bootcamp	January, 2025 December, 2024 August, 2024 July, 2024 2025
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POSITIONS OF RESPONSIBILITY

- Team Lead:** at Summer Internship and VITSIH Hackathon 2024
- School Pupil Leader:** Oversaw a student body of 600, managing events and community building.