

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institute	% / CGPA	Year
B.Tech in Electrical Engineering	Indian Institute of Technology, Madras	8.28	2025
Class XII (CBSE)	Happy Valley School, Vijayawada	94.2%	2021
Class X (BSEAP)	Sri Sai Vijetha School	10	2019

- Achieved a notable All India Rank of **2424** in Joint Entrance Examination Advanced 2021, reflecting strong academic skills.
- Earned a notable percentile of **99.55** in the Joint Entrance Examination Mains 2021, demonstrating strong academic achievement.
- Achieved All India Rank **76** in Joint Entrance Examination Mains B.Arch 2021, demonstrating strong performance.
- Achieved a remarkable rank of **591** in the **EAPCET** 2021, demonstrating a strong academic performance & competitive aptitude.

PROFESSIONAL EXPERIENCE

Advanced Application Engineering Analyst Accenture Technology, Bengaluru <i>20 May - 15 July 2024</i>	<ul style="list-style-type: none"> • Completed training on ERP concepts and SAP[®], building a strong understanding of critical business tools. • Contributed to the British Telecom Application Management Services (BT AMS) project, gaining valuable hands-on experience with SAP SuccessFactors, which supported more than 100,000 users. • Enhanced problem-solving skills by resolving over 5+ incidents and service requests, significantly reducing response time by 7% and boosting issue resolution efficiency in the BT AMS environment. • Collaborated with the team, enhancing communication and teamwork to quickly address project issues.
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PROJECTS

Route Optimizer	<ul style="list-style-type: none"> • Developed a route optimizer using Dijkstra's & A star algorithms to find the shortest path between locations. • Applied dynamic programming to optimize multi-stop routes, enhancing performance and efficiency. • Optimized the tool to provide best routes and costs for any destination, simplifying route selection.
Library Management System	<ul style="list-style-type: none"> • Developed a Library Management System (LMS) using C++ and Object-Oriented Programming (OOP) principles, significantly enhancing the overall efficiency of library operations and reducing manual errors. • Implemented comprehensive features including adding new books, issuing and returning books, searching for books, and tracking overdue items, ensuring smooth and well-organized library management.
Personal Portfolio	<ul style="list-style-type: none"> • Developed a personal portfolio website using HTML, CSS, and JavaScript to showcase skills and projects. • Configured and deployed the site on GitHub Pages, ensuring smooth hosting and efficient management.
Applied Programming Lab <i>(Course project)</i> <i>Prof Nitin</i>	<ul style="list-style-type: none"> • Used Gradient Descent to efficiently optimize 1D and 2D functions and created animations with Python. • Coded a circuit solver in Python for Combinational Circuits (with basic logic gates) using Topological Sort. • Implemented the Simulated Annealing method to effectively optimize the Travelling Salesman Problem.
Credit Card FraudShield	<ul style="list-style-type: none"> • Developed a model for detecting fraudulent transactions using Random Forest, SVM, and Decision Trees. • Achieved 92% accuracy in testing by selecting the relevant features, enhancing the model's performance.
Fundamentals of Deep Learning <i>(Course project)</i> <i>Prof Chandra Sekhar</i>	<ul style="list-style-type: none"> • Compared weight update rules Delta, Generalized Delta, AdaGrad, RMSProp, and AdaM for an MLFFNN[§] with two hidden layers on an image dataset, achieving up to a 10% improvement in accuracy. • Evaluated normalization techniques (none vs. batch) on MLFFNN with AdaM, reducing training error by 15%. • Implemented a stacked autoencoder with 3 layers for pre-training a Deep Feedforward Neural Network (DFFNN), improving performance by 20% compared to a DFNN trained with only labelled data. • Applied MLFFNN using VGGNet and GoogLeNet features, resulting in a 12% boost in classification accuracy. • Developed an advanced image captioning model using a CNN[¶], NetVLAD encoder, and a single hidden layer RNN[^] decoder, successfully achieving a significant 25% improvement in caption accuracy.

COURSES AND SKILLS

Courses	Data structures and algorithms	Applied Programming and Lab
	Fundamental of Deep learning	Database Management Systems
	Machine learning techniques*	Probability Foundations for electrical engineers
	Mathematical tools for computer science*	Linear Algebra for engineers
Languages & Tools	C++, Python, C, HTML, CSS, SQL, NumPy, Matplotlib, Sci-Kit Learn, TensorFlow, Pytorch, LaTeX	

POSITIONS OF RESPONSIBILITY

Project Management Team, Strategist CFI[§] <i>2023-2024</i>	<ul style="list-style-type: none"> • Led a 6 member team, providing guidance, driving performance and achieving collective objectives. • Developed and implemented strategies to boost team performance, productivity, and improvement. • Reviewed 10+ Club projects under CFI to evaluate progress and provide actionable recommendations. • Collaborated with project teams to support the planning and execution of various events, including Open House, Hackathons, G20 Summit, Research Conclave, Summer School throughout tenure. • Managed logistics for various events, with an average footfall of 10000+ and ensuring smooth operations.
Saathi Mentor <i>2024-present</i>	<ul style="list-style-type: none"> • Guided 3 first-year students in adapting effectively to IIT Madras's academic and social environment. • Offered academic advice, providing guidance on courses, study strategies, and time management. • Led 4 informative orientation sessions on campus resources, academic policies, and student life. • Maintained detailed records of mentee progress to support program enhancement and improvement.

EXTRACURRICULARS

Competitive Coding	• Participate in contests and solve problems using C++ on Codeforces and CodeChef as a pastime activity.
NSO[£]	• Participated in Yoga through the NSO programme at IIT Madras to enhance fitness, mental well-being.
EEA[¥]	• Captained the cricket team in the EEA tournament, showcasing leadership and teamwork in gameplay.
Hobbies	• Enjoy swimming , cricket, reading books, and chess for a mix of physical, intellectual, and leisure activities.

*-ongoing courses | §-Centre For Innovation | ¥-Electrical Engineering Association | £-National Sports Organisation | ¶-Convolutional Neural Networks

#-Systems Applications and Products in Data Processing | §-Multilayer Feed Forward Neural Network | ^-Recurrent Neural Networks